TOSHIBA

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SERVICE MANUAL

COLOUR TELEVISION

C03P Chassis

42WH36P
51WH36P

Nov., 2003

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CHAPTER 1 GENERAL ADJUSTMENTS

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is (A) kV at zero beam current (minimum brightness) under a (C) V AC power source. The high voltage must not, under any circumstances, exceed (B) kV.

   Refer to table-1 for high voltage (A), (B) & AC voltage (C). (See SETTING & ADJUSTING DATA on page 31)

   Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
2. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
3. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING : Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

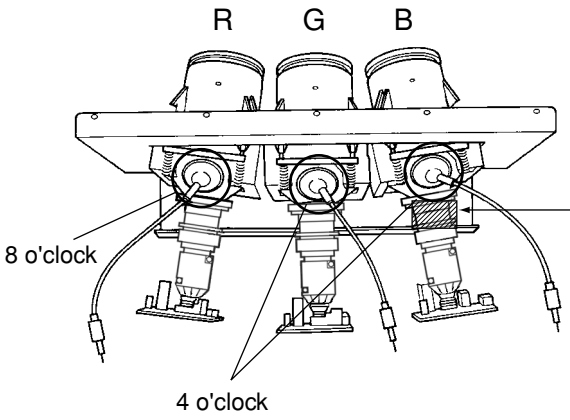
1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

PRODUCT SAFETY NOTICE

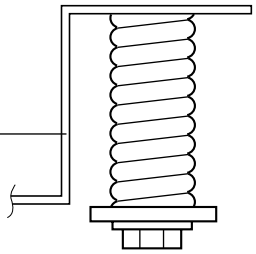
Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

CRT ASSEMBLY REPLACEMENT AND MOUNTING

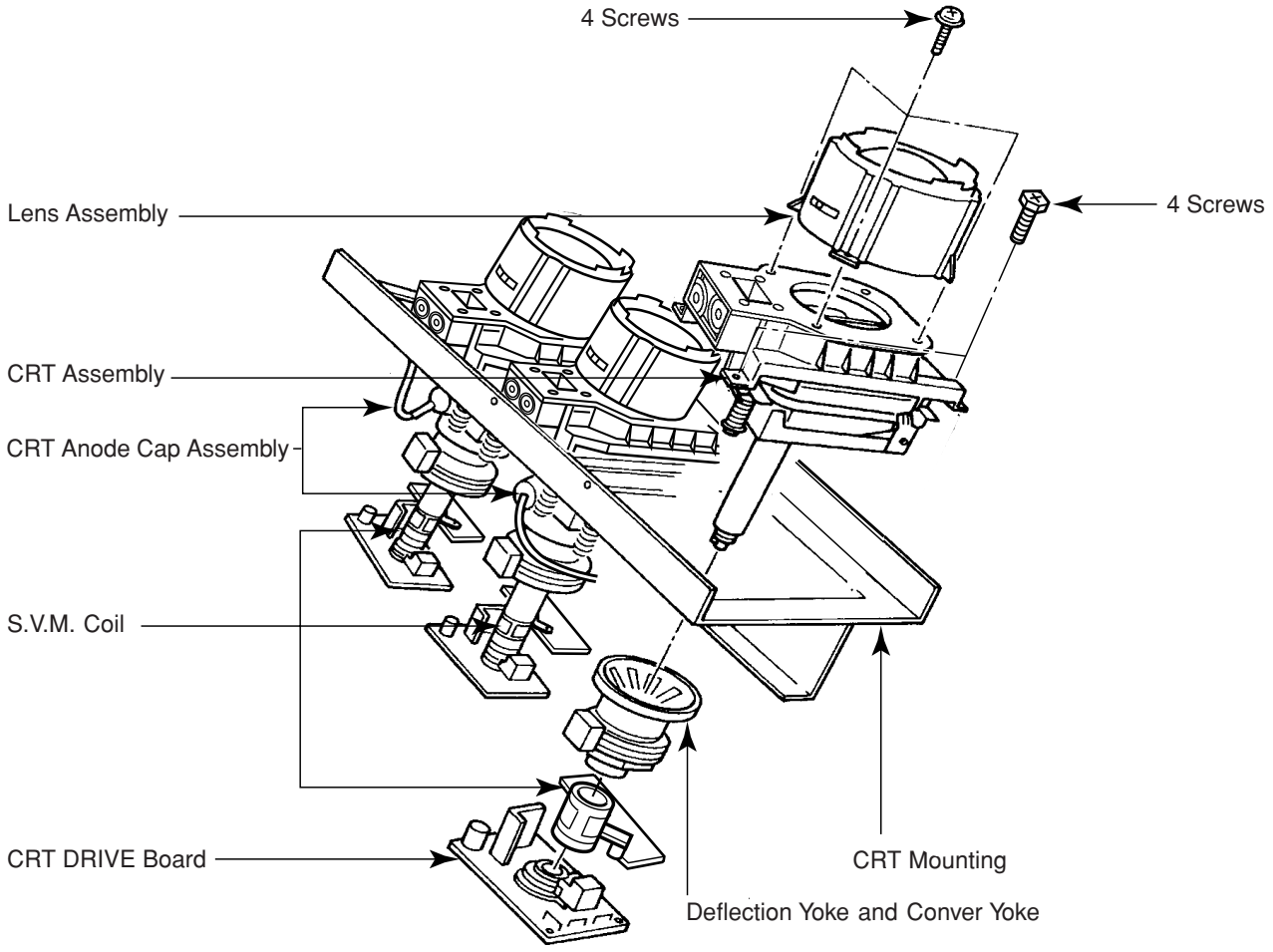
CAUTION : DO NOT LOOSEN THE HEX HEAD BOLTS WITH SPRINGS (12 PCS), BECAUSE THOSE ARE FOR SEALING OF CRT COOLANT.



Attention Serviceman



The Hex Head Bolts with Springs. (see sketch) used on CRT assembly, are "NOT" Adjustment Screws DO NOT LOOSEN-FLUID LEAKAGE WILL OCCUR.



Lens and Neck Components View

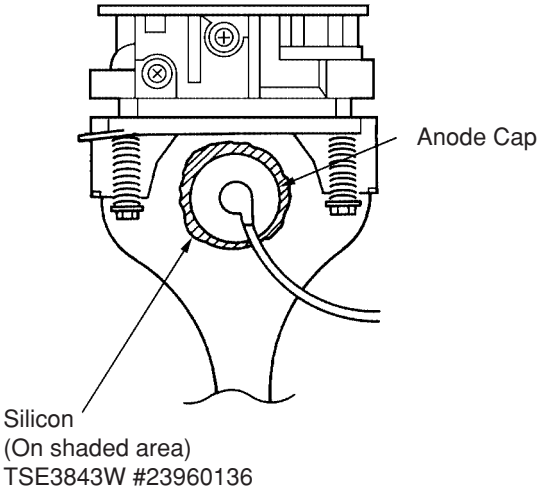
TO REMOVE CRT (Same procedure for R, G, B)

1. Remove CRT DRIVE Board, S. V. M. COIL and DEF. YOKE from CRT.
2. Remove Lens Assembly.
3. Detach CRT Anode Cap from CRT.
4. Remove CRT Assembly from CRT Mounting.

CRT REPLACEMENT (Same procedure for R, G, B)
Reverse the removal procedures except the followings.

1. Anode Cable should be replaced with new one. See "SERVICING PRECAUTIONS" shown below.
2. Install silicon (T461B) to the CRT, replace the Anode cable and put enough silicon again on around the Anode Cap as illustrated.

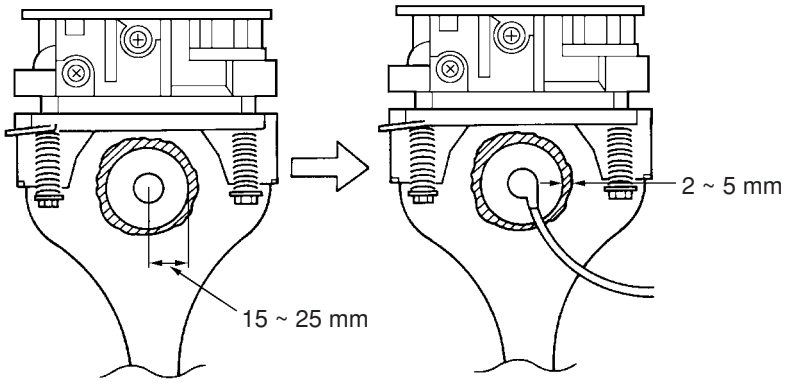
CAUTION: Align the Anode cable as illustrated on page 4.



ADJUSTING PROCEDURE IN REPLACING CRT

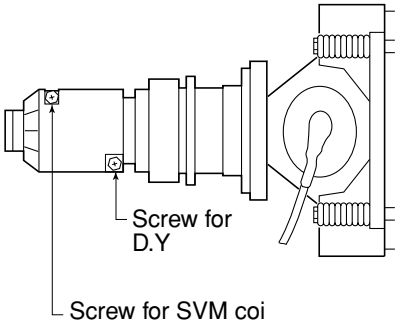
1. R.G.B. CUTOFF (SCREEN VR) ADJUSTMENT (page 6.)
2. R.G.B. FOCUS ADJUSTMENT (page 6.)
3. PICTURE TILT ADJUSTMENT (page 7.)
4. USER CONVERGENCE CENTER CHECK (Refer to owner's manual.)
5. CENTERING ADJUSTMENT (page 7.)
6. CONVERGENCE ADJUSTMENT (page 21.)
7. WHITE BALANCE ADJUSTMENT (page 14.)

Adjustments are complete.



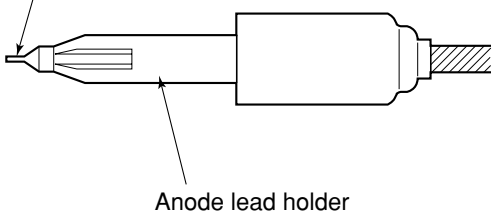
SERVICING PRECAUTIONS

■ Do not use a magnetized screw driver for screws of Deflection Yoke and Velocity Modulation Coil to avoid magnetization of electron gun. Magnetization of electron gun will degrade basic function and result in unbalance of right and left shift of user static convergence, and result in no variable quantity.



■ When replacing the anode cap assembly (CRT) or anode lead assembly (F.B.T.), remove the anode lead holder from old one and attach the holder again to new anode lead.

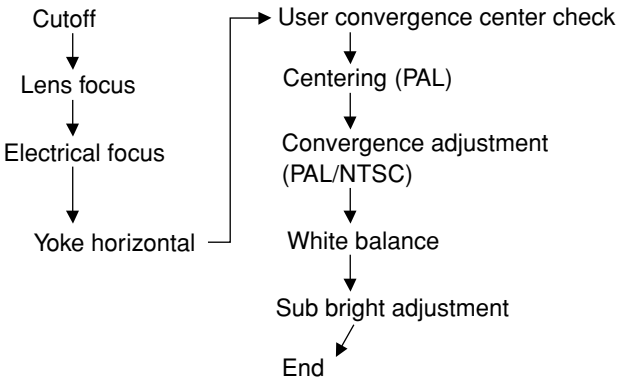
■ Check the point of anode lead in a straight line, if it is winding, please revise it.



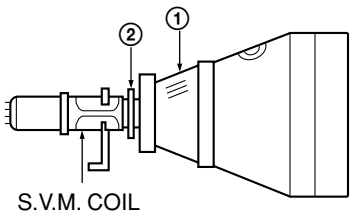
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

PICTURE TUBE COMPONENTS ADJUSTMENT

ADJUSTING PROCEDURE IN REPLACING CRT



DESCRIPTION OF NECK COMPONENTS



① Deflection yoke and convergence yoke.
The position on the neck is required most front (CRT funnel side) and the screw is fastened after rotating yoke adjusting picture tilt.

② Centering magnet
After adjusting picture tilt, picture position is finally fixed by this magnet.
In order to get maximum margin of user convergence control for center of screen, this magnet have to be used for center convergence adjustment.

PREPARATION
Operate the receiver for at least 5 minutes.

R, G, B CUTOFF (SCREEN VR) ADJUSTMENT

1. Adjust before replace the screen assembly.
2. Set user control to reset position.
   (CONTRAST → Max
   BRIGHTNESS, COLOR, TINT → Center.)
3. Call up the adjustment mode display, then select the item RCUT.
4. Adjust the data of items **RCUT**, **GCUT**, and **BCUT** to "40H".
5. Press the ⇄ button on Remote. (Y-MUTE : ON)
6. Gradually rotate R, G and B screen volume of FOCUS PAC clockwise or counterclockwise until the raster appears slightly on the CRT through the each lens, and leave them.
   (Lookin to the lens in order to check the raster.)
7. Press the ⇄ button on Remote. (Return to Normal Picture)

RGB FOCUS ADJUSTMENT

1. Call-up the adjustment mode (see page 10)
2. Press ⊕ button on the remote controller in order to display the internally-generated cross-hatch (See TEST SIGNAL SELECTION on page 11.)
3. Expose only RED by covering the GREEN and BLUE lenses with caps.
4. Loosen the RED lens fixing screws (refer to Fig. a), and adjust the RED lens focus to obtain the sharpest point while observing the middle and peripheral sections of the screen.

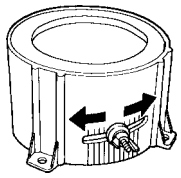


Fig. a

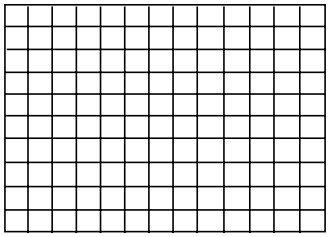
5. Use the focus VR of "R" of the focus pack in order to adjust the electric focus in the middle and peripheral sections of the screen to its sharpest level.
6. Check the RED focus of the whole screen and if necessary repeat steps 4 and 5.
7. Fix the RED lens by tightening its fixing screws.
8. Expose only GREEN by covering the RED and BLUE lenses with caps.
9. Display the internally-generated cross-hatch signal.
10. Adjust the GREEN lens focus on the left border of the screen to its sharpest level, then check the focus on the right border, and if it is at its sharpest level, fix it in that position by tightening the lens screws.

    (1) If the horizontal line toward the right border is red-flared, turn the lens screw slightly right in order to balance it with the left border. (After adjustment, the left border tends to be slightly green-flared, and the right border tends to be slightly red-flared.)
    (2) If the horizontal line toward the right border is green-flared, turn the lens screw slightly left in order to balance it with the left border. (After adjustment, the left border tends to be slightly red-flared, and the right border tends to be slightly green-flared.)

Note: The aim of the above-described adjustment procedure for the Green lens focus is to obtain the best lens focus after 2 - 3 hours of warming up taking into account the focus drift; it applies if the warming up time before the adjustment is less than 30 minutes. (The horizontal line in the screen middle section tends to be slightly red-flared.)

In case of warming up of more than 2 hours under a condition that the large anode current is running through the projection tube so that for example the all-white pattern appears, adjust to obtain the sharpest focus while observing the whole screen like in the RED case.

11. Press ⊖ button on the remote controller in order to display the internally-generated black cross-hatch. (See TEST SIGNAL SELECTION on page 11.)



12. Use the focus VR of "G" of the focus pack in order to adjust the electric focus in the middle section of the screen to its sharpest level.

Note: Normally the most clearly visible point of the scanning line is the sharpest point of the Green focus, however as the characteristics vary depending on the projection tube, the sharpest focus points of the vertical and horizontal lines may not match each other, thus when you turn the focus VR, if the picture tends to be tremendously unstable (rolls horizontally or vertically), adjust the balance of the vertical and horizontal lines to its best position.

13. Check the GREEN focus of the whole screen and if necessary repeat steps 10 and 11.
14. Fix the GREEN lens by tightening up its fixing screws.
15. Expose only BLUE by covering the RED and GREEN lenses with caps.
16. Press ⊖ button on the remote controller in order to display the internally-generated cross-hatch (See TEST SIGNAL SELECTION on page 11.)
17. Loosen the BLUE lens fixing screws (refer to Fig. a), and adjust the BLUE lens focus while observing the middle and peripheral screen sections.
18. Press ⊖ button on the remote controller in order to display the internally-generated black cross-hatch (See TEST SIGNAL SELECTION on page 11.)
19. Use the focus VR of "B" of the focus pack in order to adjust the focus in the middle section of the screen to its sharpest level.
    (The point of the Blue focus becomes sharpest when the brightness level of BLUE is lowest, the cross-hatch is clearly visible.)

Note: Keep in mind that only the BLUE electric focus is adjusted with the black cross-hatch.

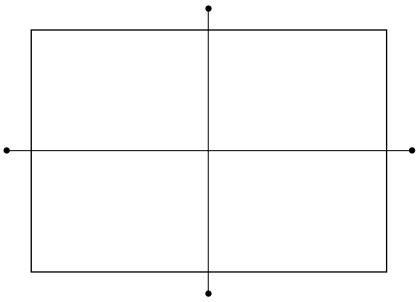
20. Check the BLUE focus of the whole screen and if necessary repeat steps 17 and 19.
21. Fix the BLUE lens by tightening its fixing screws.

TILT ADJUSTMENT

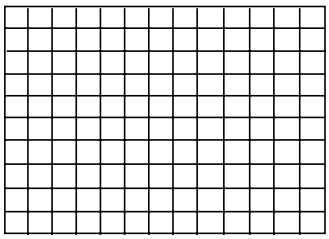
Rotate R, G, B deflection yoke so that picture becomes horizon, then fasten screw.

CENTERING ADJUSTMENT

1. Stretch a thread between two center of screen edge (top and bottom, left and right).



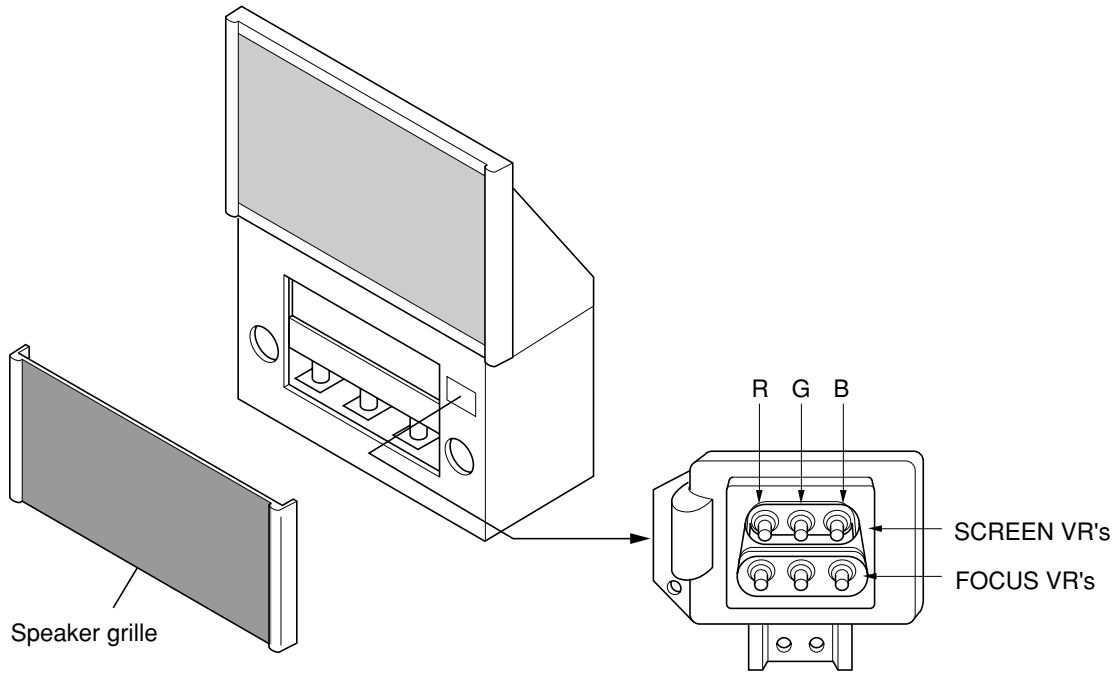
2. Select the adjustment mode. (See page 10.)
3. Press ⊖ button on the Remote Control to display the black cross-hatch.



4. Adjust G centering magnet so that the cross-hatch pattern center comes to screen center.
5. Perform HEIGHT adjustment . (See page 14.)
6. Perform WIDTH adjustment. (See page 14.)
7. Check whole quality of green line.
8. Adjust R, B centering magnet so that the cross-hatch pattern center comes to screen center.

LOCATION OF SCREEN AND FOCUS VR'S

To remove the Speaker grille and Front panel.



REPLACEMENT OF HIGH VOLTAGE CABLE

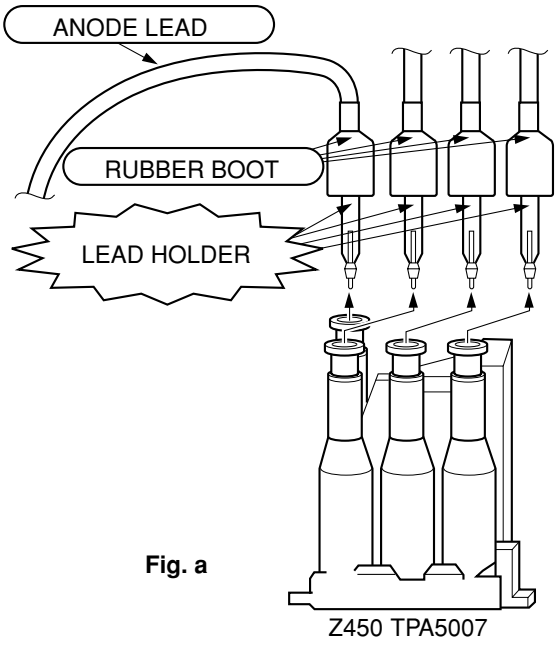


Fig. a

1. When replacing Anode Lead or Anode Cap with new one, remove Lead Holder from old lead as shown in figure below, and put it on new lead. Do not throw away Lead Holder.

NOTE : THE LEAD HOLDER IS ATTACHED TO TPA5007 (Z450), BUT IS NOT ATTACHED TO ANODE LEAD AND ANODE CAP. RUBBER BOOT IS ATTACHED TO ANODE LEAD AND ANODE CAP.

2. Detaching Lead Holder

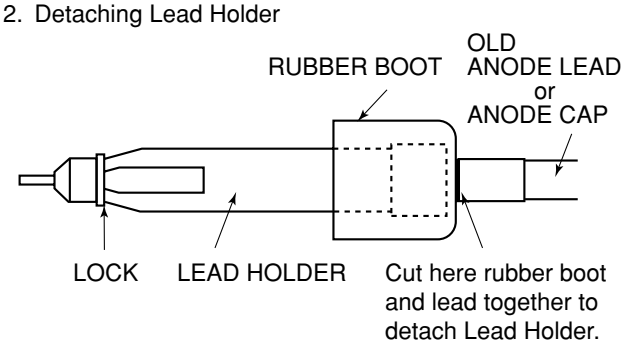


Fig. b

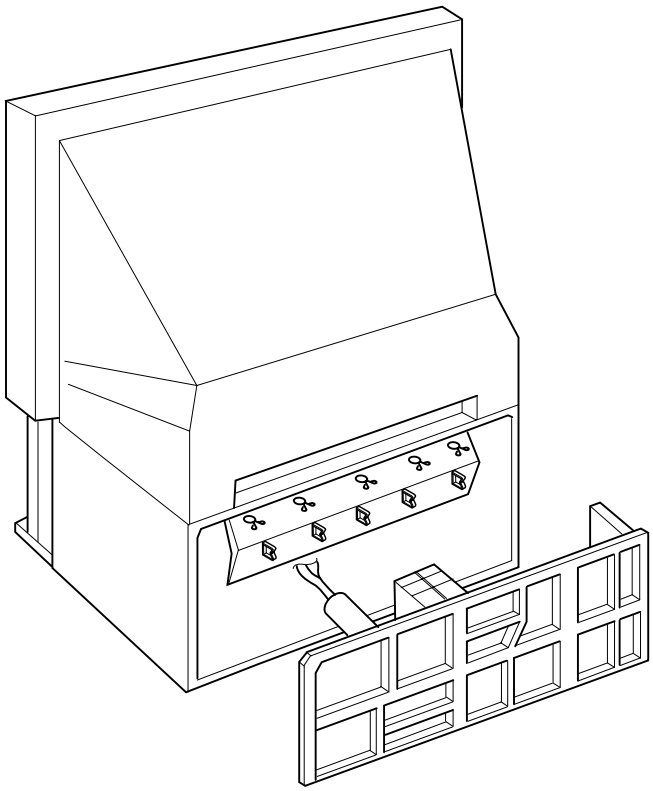
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

SERVICE POSITION

In order to assure the performance, processed wires shall be replaced after the repair work.
Work procedures are as follows:

1. Remove the back board.
2. Remove lead wires.
3. Draw out the chassis.
4. Rest the chassis against the back cabinet, chassis as shown bellow.

After repair work finished, replace it in the opposite procedure.



SERVICE MODE

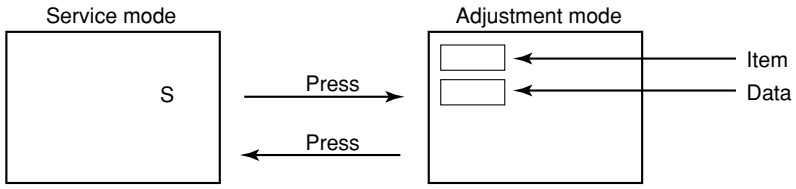
1. ENTERING TO SERVICE MODE

1) Press 🔇 button once on Remote Control.
2) Press 🔇 button again to keep pressing.
3) While pressing the 🔇 button, press MENU button on TV set.

(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

Screen adjustment mode ON/OFF:	-/-- (⮌) button (on Remote)
Test signal selection :	⊖ button (on Remote)
Selection of the adjustment items :	Channel ▲/▼ (on TV or Remote)
Change of the data value :	Volume ◿ +/– (on TV or Remote)
Adjustment menu mode ON/OFF :	MENU button (on TV)
Initialization of the memory (QA02) :	CALL + Channel button on TV (▲)
Reset the count of operating protect circuit to “00”:	CALL + Channel button on TV (▼)
“RCUT” selection :	1 button
“GCUT” selection :	2 button
“BCUT” selection :	3 button
“SCNT” selection :	4 button
“COLP” selection :	5 button – – – – – Color thickness correction
“TNTC” selection :	6 button note: Displayed differently as shown below, depending on the setting of the receiving color system.
Convergence adj :	YELLOW button COLP (PAL)
Self diagnostic display ON/OFF :	9 button COLC (NTSC)
	COLS (SECAM)

CAUTION : Never try to perform initialization unless you have changed the memory IC.

4. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

Refer to table-2 for preset data of adjustment mode.
(See SETTING & ADJUSTING DATA on page 31)

5. ADJUSTING THE DATA

1) Pressing of VOLUME ◿ +/– button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA OF QA02

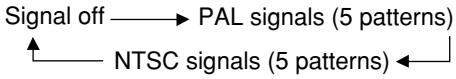
After replacing QA02, the following initialization is required.

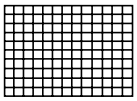
1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 has been complated.
3. Check the picture carefully. If necessary, adjust any adjustment item above. Perform “Auto tune” on the owner’s manual.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

7. TEST SIGNAL SELECTION

1) Every pressing of ⊕ button on the Remote Control changes the built-in test patterns on screen as described below in SERVICE MODE.

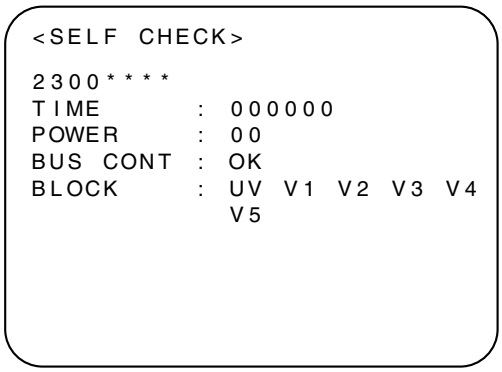


Signals	Picture
• Red raster • Green raster • Blue raster • All White	
• Black cross-hatch	

* The signals marked with ■ are not usable to display in the Test signal for some model.

8. SELF DIAGNOSTIC FUNCTION

1) Press “9” button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC’s are executed properly.
2) During diagnosis, the following displays are shown.



Indicated color of mode now selected : Green and Red
Indicated color of other modes : Black

Green : Normal
Red : The microcomputer operates to provide judgement of no video signal. The red color is still indicated though the signal is input, failure may exist in input signal line including QV01.

NOTE: (1) In case that "on timer" indicator is blinking with interval of 0.5 seconds; it means protecting circuit (Current limiter) is operating, and circuit components may possibly be damaged. Check related components.
(2) In case that "on timer" indicator is blinking with interval of 1 second; Protecting circuit does not operate, but a part of Bus line does not operate normally. Check Bus line.

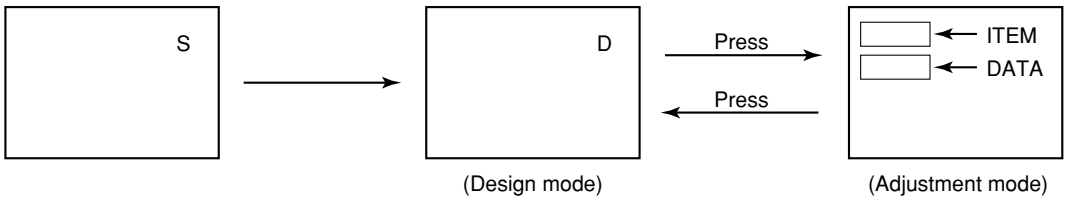
① Part number of microcomputer (QA01)
② Total hour of turn the TV on. (Unit: H)
③ Operation number of protecting circuit ----“00” is normal.
When indication is other than “00”, overcurrent apts to flow, and circuit parts may possibly be damaged.
④ BUS CONT ----“OK” is normal.
When indication shows “Q○○○ NG”, the device with the number may possibly be damaged.
⑤ BLOCK
UV : TV reception mode
V1 : VIDEO 1 input mode (➔1)
V2 : VIDEO 2 input mode (➔2)
V3 : VIDEO 3 input mode
V4 : VIDEO 4 input mode
V5 : VIDEO 5 input mode

***** The items marked with ■ are not usable to display in the SELF DIAGNOSTIC FUCTION for some model.

DESIGN MODE

1. ENTERING TO DESIGN MODE

1) Select the Service mode. 2) While pressing CALL button on Remote and press MENU button on TV. 3) Press MENU button on TV.



When QA02 is initialized, item “OPT3" of DESIGN MODE is set to the data of the representative model of this chassis family. Therefore, because ON-SCREEN specification remains in the state of the representative of model. This model is required to reset the data of item “OPT3".

2. SELECTING THE ADJUSTING ITEMS

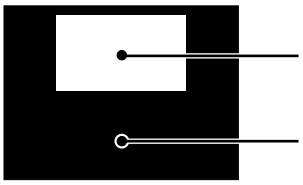
Every pressing of CHANNEL ▼ button in the design mode changes the adjustment items in the order of table-3. (▲ button for reverse order)

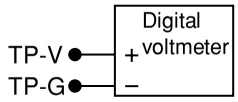
Refer to table-3 for data of design mode.
(See SETTING & ADJUSTING DATA on page 31)

3. ADJUSTING THE DATA

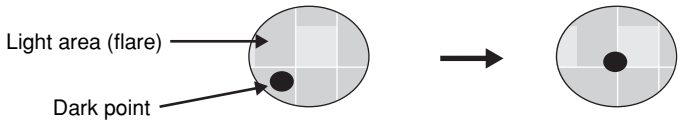
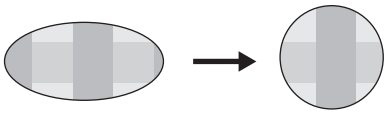
Pressing of VOLUME ▲ or ▼ button will change the value of data.

ELECTRICAL ADJUSTMENT

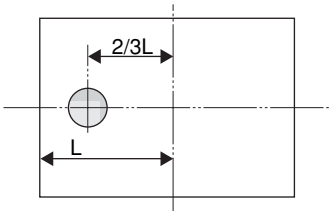
ITEM	ADJUSTMENT PROCEDURE
WIDTH (WID) (Picture size wide)	1. Call up the adjustment mode display, then select the item **WID**. 2. Press the VOLUME ▼ button to get the picture so the left or right edges of raster begins to lack. 3. Press the VOLUME ▲ button to advance the data by 11 steps. Note : Check the horizontal picture position is correct.
HEIGHT (HIT) (Picture size wide)	1. Call up the adjustment mode display, then select the item **HIT**. 2. Press the VOLUME ▼ button to get the picture so the top or bottom of raster begins to lack. 3. Press the VOLUME ▲ button to advance the data by 9 steps. Note : Check the vertical picture position is correct.
WHITE BALANCE (RCUT) (GCUT) (BCUT) (RDRV) (BDRV)	Black and White pattern * There is not in the built-in test patterns. It needs to prepare the pattern generator.  High light area Adjust "RDRV" or "BDRV" to be white. Low light area Fine adjust "RCUT", "GCUT" or "BCUT" to be black. 1. Set user control to reset position. (CONTRAST → Max BRIGHTNESS, COLOR, TINT → Center.) 2. Call up the adjustment mode display, then select the item RCUT. 3. Adjust the data of items **RCUT**, **GCUT**, and **BCUT** to "40H". 4. Press the -/-- (⇄) button on Remote. (Y-MUTE : ON) 5. Gradually rotate R, G and B screen volume of FOCUS PAC clockwise or counterclockwise until the raster appears slightly on the CRT through the each lens, and leave them. (Lookin to the lens in order to check the raster.) 6. Press the -/-- (⇄) button on Remote. (Return to Normal Picture) 7. Press the ⊖ button on Remote, and select the Black and White pattern. 8. Adjust the data of items **RCUT**, **GCUT** and **BCUT** for proper white-balanced picture in low light area. 9. Adjust the data of items **RDRV** and **BDRV** for proper white-balanced picture in high light area. 10. Check the white balance in both low and high light areas. If necessary, perform again steps from 8 to 9.

Items	Names	Settings	Input signals	Measuring points	Adjusting methods	Adjusting standards
SCNT	Sub-contrast	Picture mode 1 Audio system: I	Sub-bright signal (PAL-I signal)	TP03 SIGNAL unit	1) Adjust amplitude from the pedestal level up to the white peak.	0.7 (o-p)
BRTC	Sub-bright center	Picture mode 1 WIDE mode	Sub-bright signal	Screen adjustment	1) Adjust the number of black collapsed lines of sub-bright signals. 2) Adjust after adjusting W/B, SCNT.	4 lines
COLP	Sub-color center PAL	Picture mode 1	Sub-bright signal (PAL)	TP02 SIGNAL unit	1) Adjust the amplitude of the rainbow color bar. 2) Adjust the P-P value of the upper half.	0.25 V (p-p)
COLS	Sub-color center SECAM	Picture mode 1	SECAM color bar	TP02 SIGNAL unit	1) Adjust the amplitude of the color bar.	0.52 V (p-p)
SRY	SECAM R-Y Black level		SECAM color bar	TP02 SIGNAL unit	1) Adjust so that the level of black and white signal part can be aligned with the level of H.BLK.	0 mV
SBY	SECAM R-Y Black level		SECAM color bar	TP01 SIGNAL unit	1) Adjust so that the level of black and white signal part can be aligned with the level of H.BLK.	0 mV
Screen adjustment	Screen	Factory screen adjusting mode		CRT tubular screen	1) Darken the environment as much as possible. 2) Set to factory-set screen adjusting MODE. (Y mute, DRV.CUT=40H) 3) Directly observe the surface of Cathode Ray Tube and adjust the screen VR to the point that starts lighting. 4) Make above-mentioned adjustments for each tube of G, R, and B.	Point that starts lighting
Focus adjustment	Focus	Picture mode 1	Retma signal (PAL-I) Crosshatch signal	Screen adjustment	1) Adjust to the best position by repeating electrical focus and optical focus adjustments. 2) Use the jig and shade the CRT except the axes under adjustment. 3) Make above-mentioned adjustments for each tube of G, R, and B.	For details, refer to [focus adjusting method] introduced in the next page.
RDRV BDRV	Bright part W/B	Picture mode 1 WIDE mode		Screen adjustment	1) Adjust the color temperature of the bright part (103cd/m^2).	8750k-0.002uv
RCUT BCUT	Dark part W/B	Picture mode 1 WIDE mode		Screen adjustment	1) Adjust the color temperature of the dark part (17cd/m^2).	8750k-0.002uv
VCEN	Midpoint voltage voltage adjustment	Picture mode 1 DFS-100 Hz	Phillips Pattern	Between TP-V and TP-G	1) Connect a digital voltmeter between TP-V and TP-G and adjust it to 0 mV by VCEN data. (No designation on polarity of degital voltmeter) 	0 ± 10mV

Green Alignment/Astigmatic Adjustments

Adjustment items	Adjusting methods
Alignment Adjustment	Procedures (Make this adjustment by using a lens cap. This adjustment should be made after adjusting the electrical focus nd lens focus rough and making a Centering Adjustment.) 1. Set the G monochrome by a lens cap. 2. Cancel the magnetic fields of bipolar, tetrapolar, hexapolar magnets. 3. Receive the image of dot pattern which is generated by the signal generator. (White dot, Black background) 4. Turn the focus VR slightly left from the just focus point. 5. Adjust the bipolar magnet so that the dark brightness point is center of the light bright area. 6. Make a just focus adjustment. 7. Receivethe image of Philips pattern, and re-adjust the centering. 8. Repeat the above items 4 to 7. Re-adjust those items if necessary. 
Astigmatic Adjustment	Procedures (Make this adjustment by using a lens cap.) 1. Set G monochrome by a lens cap. 2. Input the dot pattern (white dot and black backgroud). 3. Turn the Focus VR slightly right from the just focus point. 4. Adjust the tetrapolar magnet so that the fuzzy dot is a perfect circle. 5. Check and confirm that the shapes of flare are almost the same circle even if turing the VR focus right and left. 6. Make a just focus adjustment. 7. Affix the magnet with adhesives.  Make adjustment so that the dot is a perfect circle.

Adjustment items	Adjusting methods
Focus adjustment	(Conditions) - User adjustment: Dynamic mode, Cinema mode - To be performed after centering magnet adjustment. - Signal : Lens: R .... Crosshatch (PAL) G .... Crosshatch (PAL) B .... Crosshatch (PAL) Electrical focus : R .... Crosshatch (PAL) G .... Crosshatch (PAL) B .... Crosshatch (PAL) (Adjustment) 1. Common item 1) Make coarse adjustments in advance on the lens focus and electrical focus of each R, G, and B tube. 2. G adjustment 1) Set to the G monochrome by lens cap. 2) Receive the image of crosshatch. 3) Adjust the G electric focus. Adjust the G electrical focus by the focus volume of focus block (Z410) so that the screen center will come to optimum focus. (Although the G electrical focus is to be adjusted to allow the scanning lines in the center of the screen to be seen most clealy, if G alignment and astigmatism are inferior with the appearance of vertical and horizontal flares in the center of and around the screen and if the lines become thicker, adjust to the best point observing the entire screen.) 4) Adjust the G lens focus. Keep an eye on the center of the crosshatch pattern and adjust so that the screen center will become clear. As a rough guide to decrease unevenness, adjust so that red flares on both sides of the crosshatch line will come to 1mm in thickness. 5) Repeat 3, 4, and attempt to further improve the focus quality.

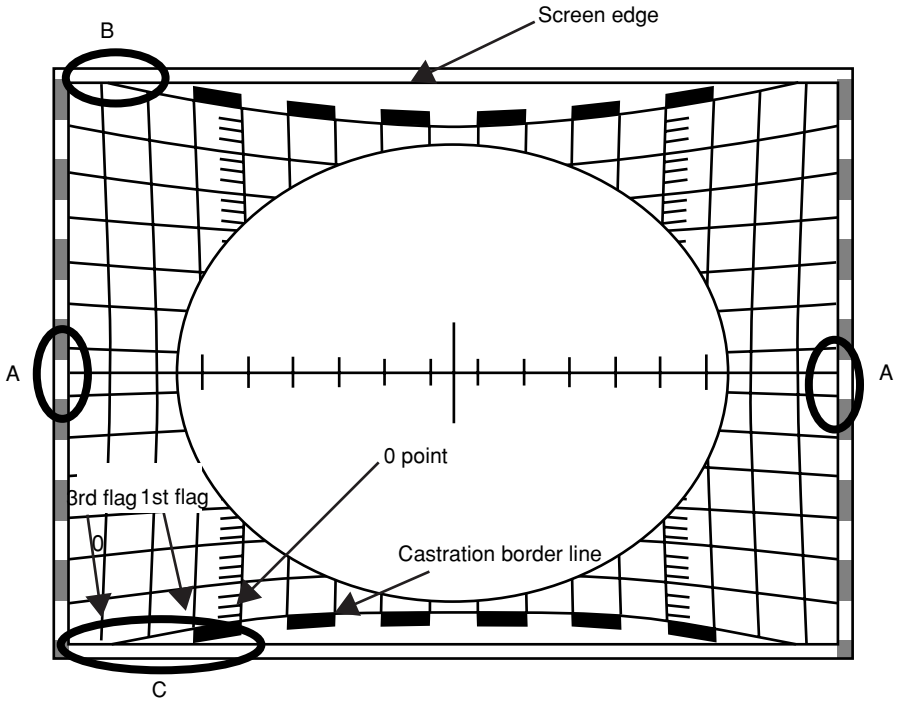
Adjustment items	Adjusting methods
Focus adjustment	Concerning items 1), 2), 3), and 5) of G adjustment, these are common to the ones on the previous page. 3. R adjustment 1) Set to the R monochrome by lens cap. 2) Receive the image of the internal crosshatched pattern. 3) Adjust the R electrical focus. Adjust by focus volume of the focus block (Z410) so that the screen center will come to optimum focus. 4) Adjust the R lens focus. Adjust so that the screen center will become the best. 5) Repeat 3, 4, and attempt to further improve the focus quality. 4. B adjustment 1) Set to the B monochrome by lens cap. 2) Receive the image of internal crosshatch pattern.  3) Adjust the B electrical focus. Adjust the B electrical focus by using the focus VR on the focus block (Z410) so that the scanning line is the most distinct at the point of 2/3L left side from the screen center. 4) Adjust the B lens focus. Pay attention to the border of the blue line and the black (background) in the vicinity of the screen center. First of all, make coarse adjustments of the lens, and move the lens adjusting screw to the right at the point being considered as the best focus. Then, the lines of the border become clear. Check and confirm under the circumstance that a flare appears. On the contrary, if the lens adjusting screw is moved to the left from the situation, the flare will disappear, and at this point you will find a point from which the borderline itself begins to go out of focus. Adjust to the very point where the focus begins to go out.

Items	Names	Settings	Input signals	Measuring points	Adjusting methods	Adjusting standards
Adjustment of screen position		Picture model DFS-100Hz	Philips Pattern (PAL-I)	Screen adjustment	1) Adjust the vertical and horizontal screen positions using the centering magnet so that the center cross mark of the dummy screen and the cross mark of the Phillips pattern can overlap precisely. This will be carried out individually for the tubes of R, G, and B. (Caution) Do not move HPOS and VPOS data.	
HIT VLIN	Vertical amplitude adjustment PAL WIDE	Picture model DFS-100Hz CMUT-ON	Philips Pattern (PAL-I)		1) Shorten the vertical amplitude by HIT data until the upper and lower flags appear on the screen. 2) The amplitude should be balanced vertically. If not, adjust VLIN. When VLIN is adjustd, adjust the screen position by the centering magnet. 3) Subsequently, lengthen the vertical amplitude by HIT data until either upper or lower flag end is aligned with the screen end.	
WID	Horizontal amplitude adjustment	Picture mode 1 DFS-100Hz CMUT-ON	Philips Pattern (PAL-I)	Screen adjustment	1) Lower the WID data in the beginning, and shorten the amplitude horizontally until the left and right flags appear completely. 2) Lengthen the horizontal amplitude by WID data so that the number of register marks will come to 9 in total (each 4.5 flags at the left and right sides).	9 ± 1 flags
HIT2 LIN2	Vertical amplitude adjustment NTSC	Picture mode 1 DFS-120Hz	Monoscope signal	Screen adjustment	1) The upper first one on the screen is to be hidden by the mask. 2) The amplitude should be balanced vertically.	
WID2	Vertical amplitude adjustment NTSC	Picture mode 1 DFS-120Hz mode	Monoscope signal	Screen adjustment	1) Adjust the 2.5th left register mark to the left screen edge.	

Deflection amplitude setting for 51WH36P (HIT/WID adjusting method under muted convergence)

* Green pattern under the muted convergence

Deflection amplitude setting for 42/57WH36P



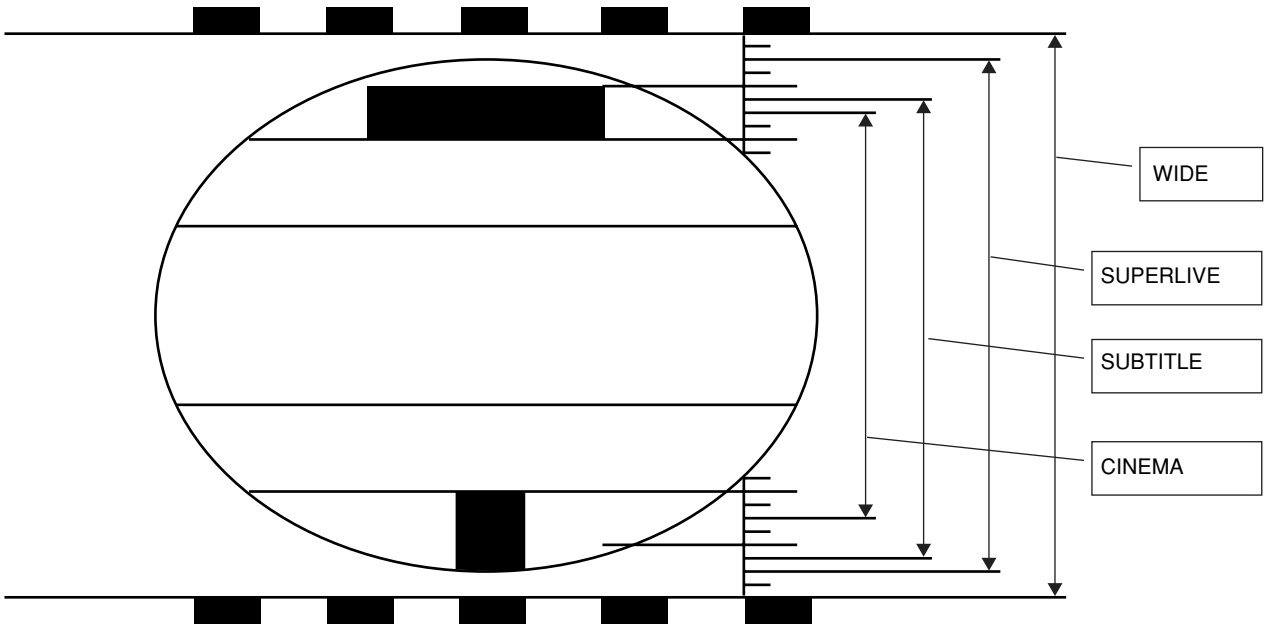
Horizontal amplitude: Left and right register marks of Philips pattern C + D = **8** (See A of the upper figure.)

Vertical amplitude: The point where the **3rd** vertical line outer from the upper and lower register marks of Philips pattern is overlapped with flags contacts the screen edge. If the amplitude is uneven horizontally and vertically, make HIT adjustment so that B shown in the upper left of the upper figure comes to contact the screen edge.

Next, pay attention to the C point. Check and confirm that the castration border line contacts through 2nd line to 4th line outer from the lower register mark.

Vertical amplitude adjusting method for PAL/100Hz mode

1 Make adjustment on the basis of the upper screen.
2 Do not make VLIN adjustment for SUPERLIVE.
3 Screen adjusting range: ±1



CONVERGENCE ADJUSTMENT

1. SCREEN ADJUSTMENT

The adjustment is carried out on six screens:
① PAL 100Hz Wide/4:3
② PAL 100Hz Super live
③ PAL 100Hz Cinema
④ PAL 100Hz Subtitle/14:9
⑤ PAL Progressive all
⑥ NTSC Progressive all

When making the adjustments, feed an external signal to make a synchronization.

Note:

The convergence circuit is a circuit to eliminate screen distortion and can not make a drastic correction such as to correct entire screen size. An excessive correction may actuate the protection circuit. So a care will be necessary.
Before proceeding to the adjustment for each screen, always perform the adjustments for vertical size (HIT) and horizontal size (WID) with the main deflection data changed.

The menu order is 1~6 .... when the input signl is PAL. (In this case item 7 is not selectable)

The menu order is 7 .... when the input signal is NTSC. (In this case, item 1~6 are not selectable)

1-1. Entering the Adjustment Menu

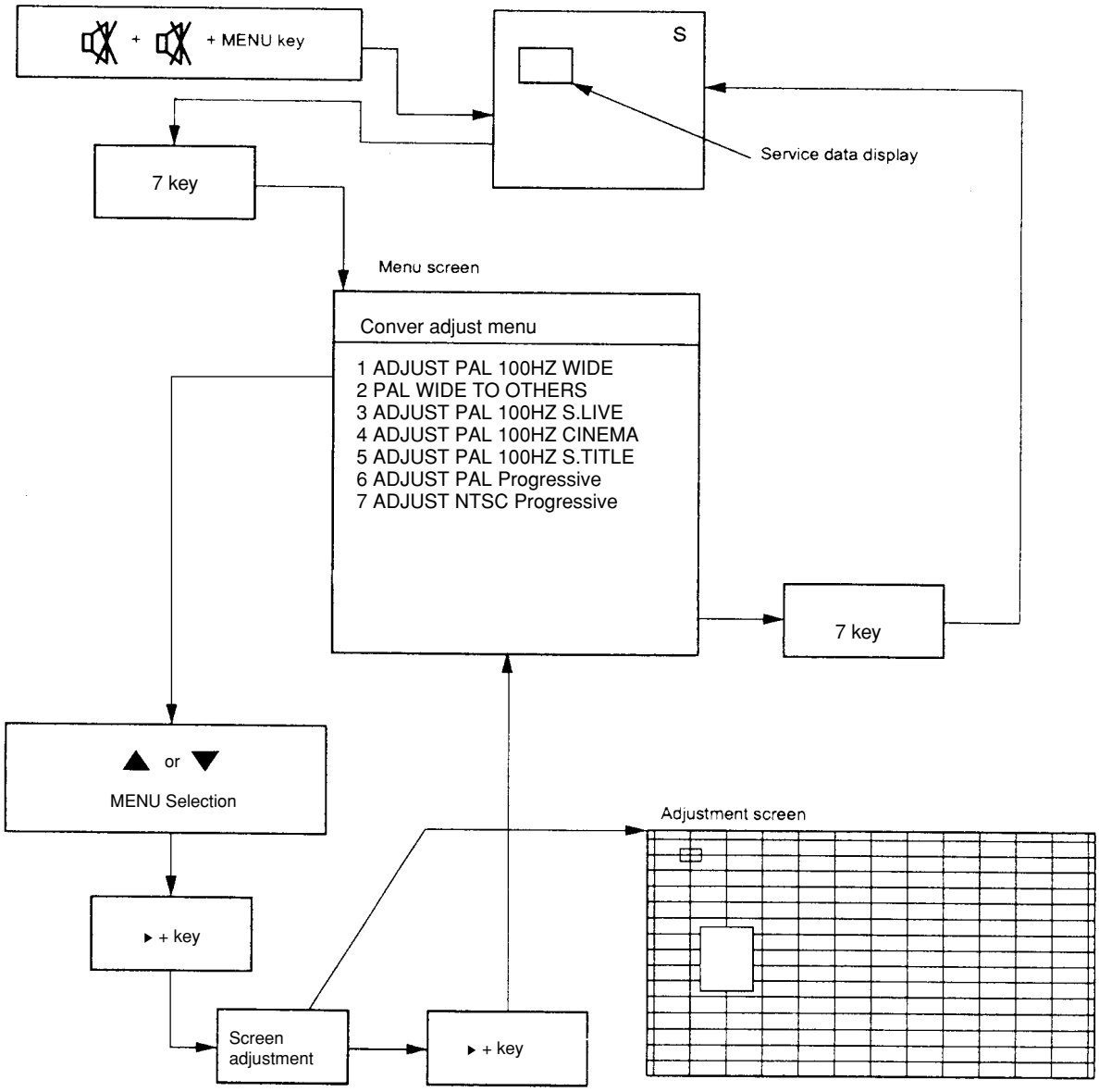
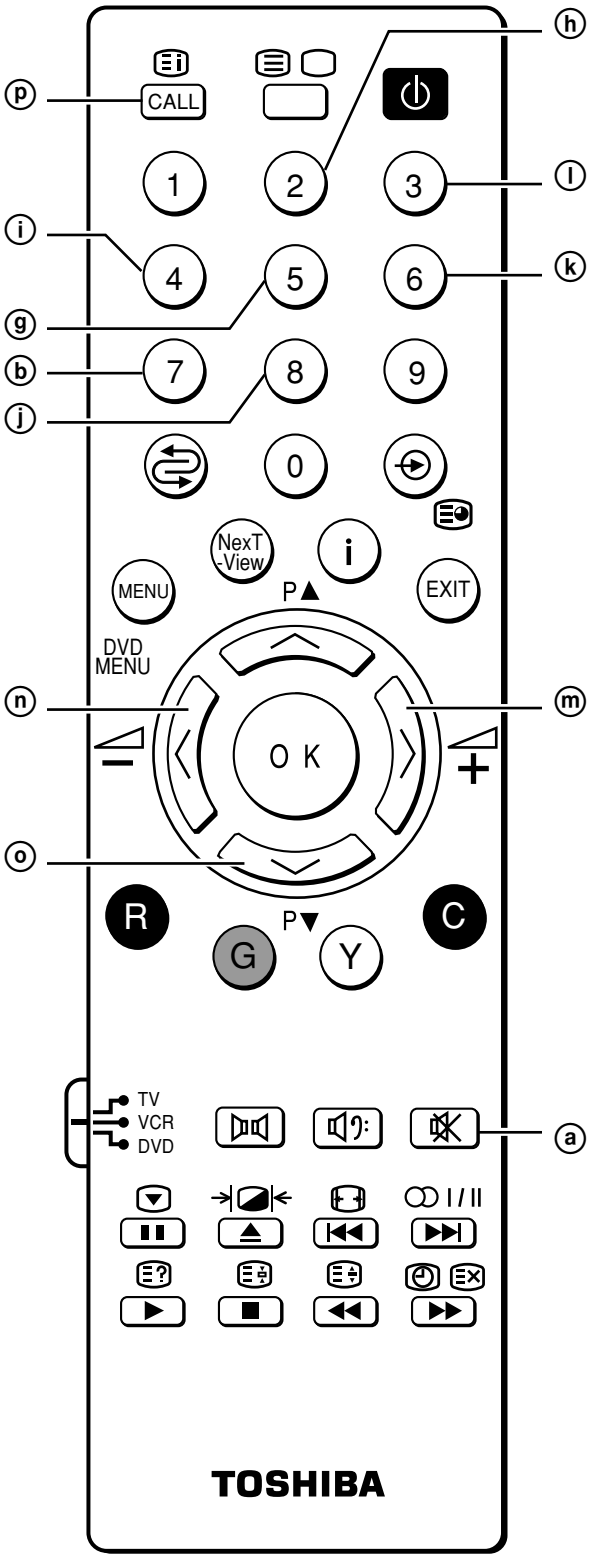


Fig. 1

1-2. Remote Control Key



ⓐ 🔇 key ..... Push this key twice and the set console menu key to enter the service mode.
ⓑ 7 key ..... Push 7 key to enter and cancel the convergence menu.
ⓖ 5 key ..... Cursor shift / data change mode change-over.
ⓗ 2 key ..... Cursor up / adjusting point up.
ⓘ 4 key ..... Cursor left / adjusting point left
ⓙ 8 key ..... Cursor down / adjusting point down
ⓚ 6 key ..... Cursor right / adjusting point right
ⓛ 3 key ..... Cursor colour change (Adjusting colour selection).
ⓜ ▶ key ..... Execution key on convergence menu.
ⓝ ▲ key ..... Up key on convergence menu.
ⓞ ▼ key ..... Down key on convergence menu.

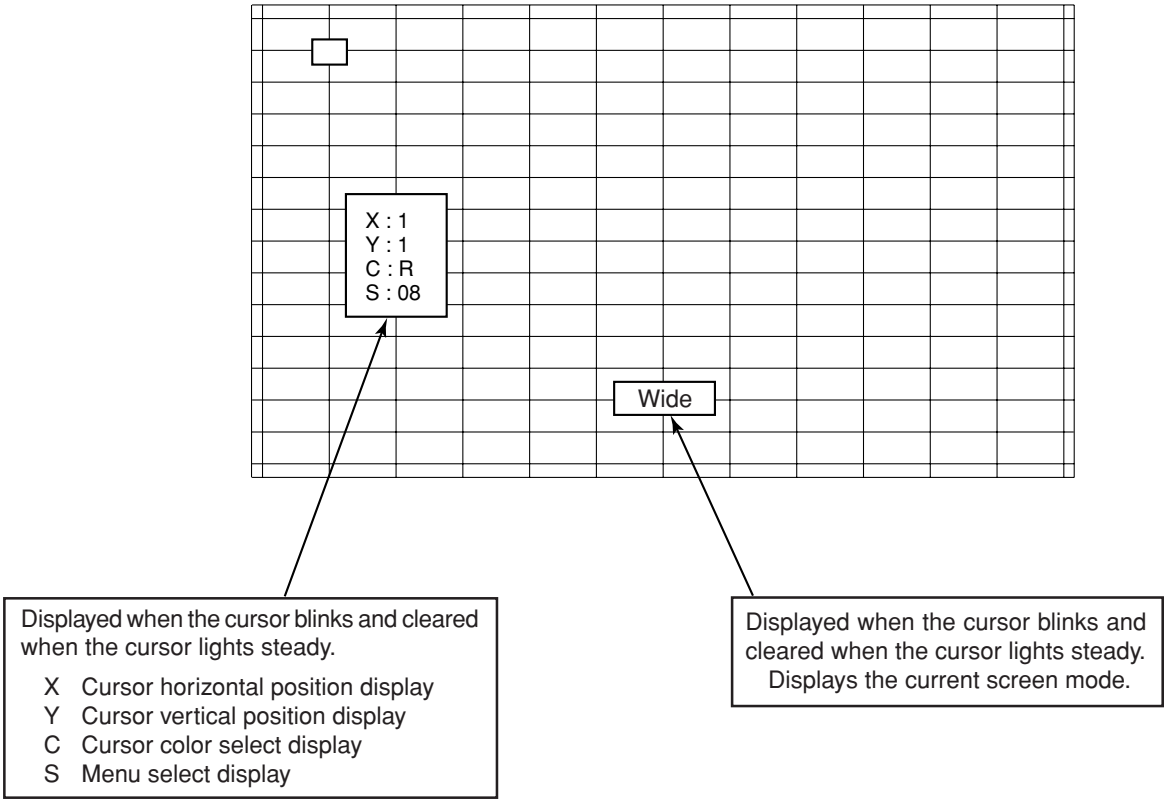
Fig. 2

1-3. Adjusting Screen

1) Adjusting menu

NO	Item	Description
1	ADJUST PAL 100 Hz WIDE	Used for manual adjustment of PAL 100Hz WIDE screen. (This item is selectable when input-source is PAL)
2	PAL WIDE TO OTHERS	Automatically converted from the PAL 100Hz WIDE screen data to the data of the other screens; PAL 100Hz Super live, PAL 100Hz Cinema, PAL 100Hz Subtitle, PAL Progressive, NTSC Progressive. Re-adjustment is required for getting fine conversion on each screens by following menu. Note: This menu overwrites current data of these modes. If the convergence-conditions of these modes are good, don't execute this menu. (This item is selectalble when input-source is PAL)
3	ADJUST PAL S.LIVE	Used for manual adjustment of the PAL Super live screen. (This item is selectable when input-source is PAL)
4	ADJUST PAL CINEMA	Used for manual adjustment of the PAL Cinema screen. (This item is selectable when input-source is PAL)
5	ADJUST PAL S.TITLE	Used for manual adjustment of the PAL Subtitle screen. (This item is selectable when input-source is PAL)
6	ADJUST PAL Progressive	Used for manual adjustment of the PAL Progressive screen. (This item is selectable when input-source is PAL)
7	ADJUST NTSC Progressive	Used for manual adjustment of the NTSC Progressive screen. (This item is selectable when input-source is NTSC)

2) Adjustment Screen


X : 1
Y : 1
C : R
S : 08
Wide
Displayed when the cursor blinks and cleared when the cursor lights steady.
X Cursor horizontal position display
Y Cursor vertical position display
C Cursor color select display
S Menu select display
Displayed when the cursor blinks and cleared when the cursor lights steady.
Displays the current screen mode.

3) Adjustment Sequence

When the initial screen opens, X = 1, Y = 1, C = R and S = [Select Menu] are displayed as the defaults. The cursor can now be moved up, down, left and right using the (2), (8), (4) and (6) keys of the remote control. Select the desired adjustment and press the (5) key; the cursor will light steady and the screen display will be cleared. Again press the (2), (8), (4) and (6) keys of the remote control to adjust the shape of the screen. When adjustment has been completed, press the (+) key to return to the Adjustment Menu. When all of the screen adjustments have been completed, turn off the main power supply of the set to reset the menu.

2. Case Study

In many cases, color matching problems can be solved by returning the HIT and WID data for main deflection to the initial adjustment values. Convergence cannot be re-adjusted in the following cases.

2-1 When the CRT has been replaced

Main deflection re-adjustment and color matching are necessary when the CRT has been replaced. Use the following procedure.

1. Replace the blue and red CRTs.
2. Perform the blue and red yoke horizontal adjustments in relation to the green CRT. Press the yokes and speed modulation coils + alignments onto the CRTs and fasten after making sure that there are no gaps.
3. Adjust the blue and red alignments (refer to the detailed alignment adjustment item).
4. Use centering magnets to center the blue and red CRTs in relation to the green CRT.
5. Adjust the main deflection HIT and WID data, using the most accurate location in relation to the green as data.
6. Use convergence to match the colors for each screen. Green will not work at this time.
7. When the convergence adjustments have been completed for all screens, then replace the green CRT.

Repeat the procedures in steps 2 - 5 for the green CRT but this time use convergence to match the colors using red and blue as reference.

2-2 When replacing the convergence unit

Generally, all of the screens must be re-adjusted when the convergence unit is replaced, but the process can be greatly shortened by using the following method.

1. Replace the memory (Q173, Q174, Q175) of the new unit (ZC01) with the memory (Q173, Q174, Q175) of the defective unit (ZC01). This makes it possible to quickly reproduce the previous screen status when installed in the set.
2. Install the new unit with the old memory in the set and turn on the power. The entire screen will move linearly in either the vertical or horizontal direction.
3. Use centering magnets to re-adjust the green, red and blue centers.
4. There is possibility of color mismatching or differences in screen size when the various screens are checked. In such case, adjust the main deflection and apply a slight amount of convergence color matching.

2-3 When none of the above cases apply (rare case)

An unexpected situation or major operational error, etc., could be considered but it is recommended that all screens be matched starting from the beginning. If the initial positions of the centering magnets are unknown, disconnect the connectors for the convergence sub-yoke outputs one at a time, adjust the CRT centering and then start the following adjustments

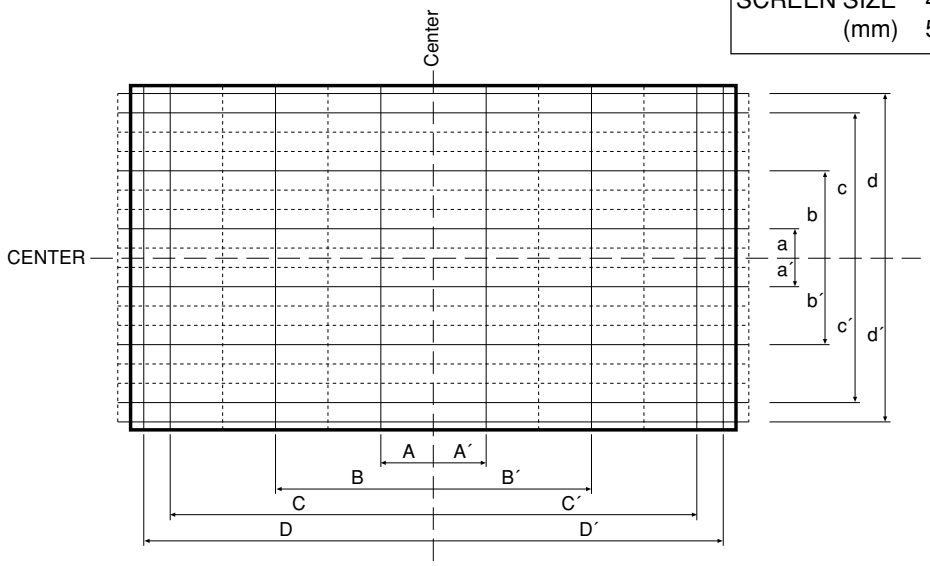
1. Connect PAL signal.
2. Make sure that there is plenty of room for the static cross convergence to be moved left, right, up and down. If sufficient space is not available, move to an appropriate location and then re-adjust the centering.
3. Enter the convergence adjustment mode and call out the menu.
4. Select 1. ADJUST PAL 100Hz WIDE and adjust the PAL mode Wide screen manually in accordance with the dimension diagram.
5. When the PAL 100Hz WIDE screen adjustment has been completed, return to the Main Menu and select 2. PAL Wide to others.
   The screen will change automatically and all the other screens will be created automatically.
6. Next, select 3. ADJUST PAL 100Hz S.LIVE in accordance with the dimension diagram.
7. Next, select 4. ADJUST PAL 100Hz CINEMA and fine adjust to remove any Cinema screen distortion.
8. Next, select 5. ADJUST PAL 100Hz S.TITLE and fine adjust to remove any Subtitle screen distortion.
9. Next, select 6. ADJUST PAL Progressive and fine adjust to remove any PAL Progressive screen distortion.
10. Connect NTSC signal.
11. Next, select 7. ADJUST NTSC Progressive and fine adjust to remove any NTSC Progressive screen distortion.

All of the screens can be adjusted with the above process but make every effort not to change the factory data unless absolutely necessary. Try not to change the convergence data any more than necessary.

3. Screen adjustment dimensions

3-1 PAL 100Hz (WIDE/4:3), Progressive (all mode)

SCREEN SIZE (mm)	42: 930 x 523 51: 1129 x 635



GEOMETRY

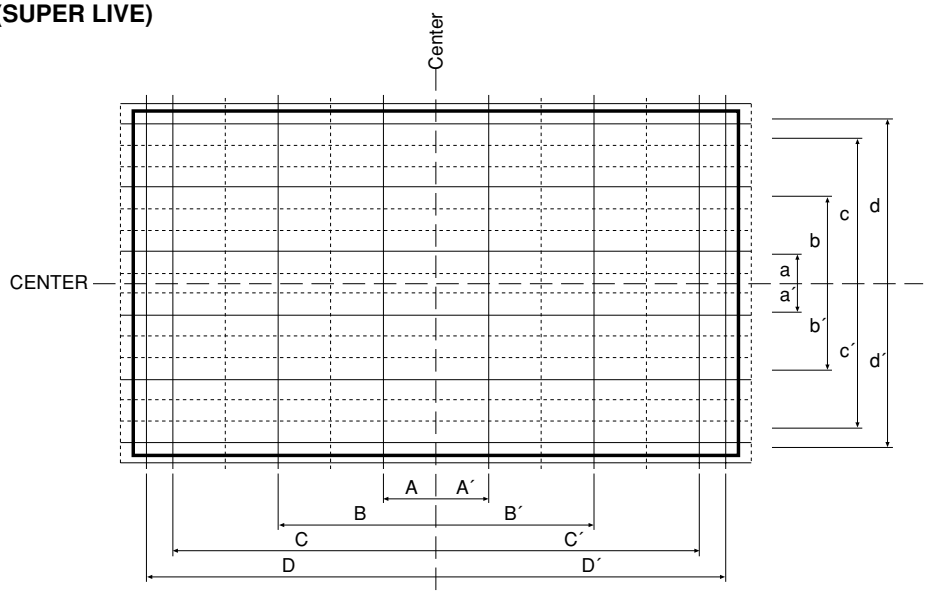
1) VERTICAL

MODEL	a, a'	b, b'	c, c'	d, d'
42	43.5	130.5	217.5	246.5
51	52.8	158.4	264.0	299.2

2) HORIZONTAL

MODEL	A, A'	B, B'	C, C'	D, D'
42	79.8	239.4	399	458.9
51	96.9	290.7	484.5	557.1

3-2 PAL 100Hz (SUPER LIVE)



GEOMETRY

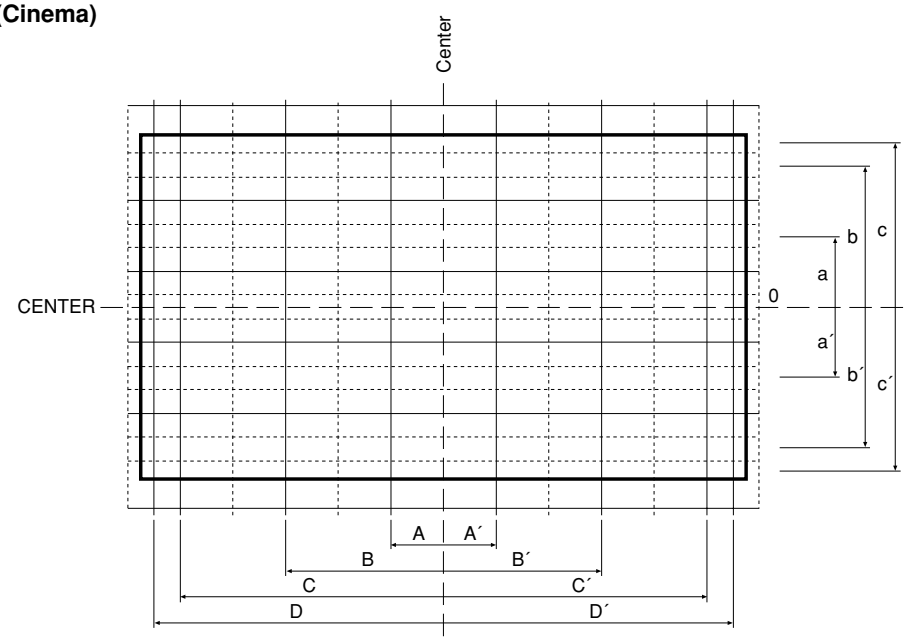
1) VERTICAL

MODEL	a, a'	b, b'	c, c'	d, d'
42	46.9	140.8	234.7	266.0
51	57.0	171.0	285.0	323.0

2) HORIZONTAL

MODEL	A, A'	B, B'	C, C'	D, D'
42	79.8	239.4	399	458.9
51	96.9	290.7	484.5	557.1

3-3 PAL 100Hz (Cinema)



GEOMETRY

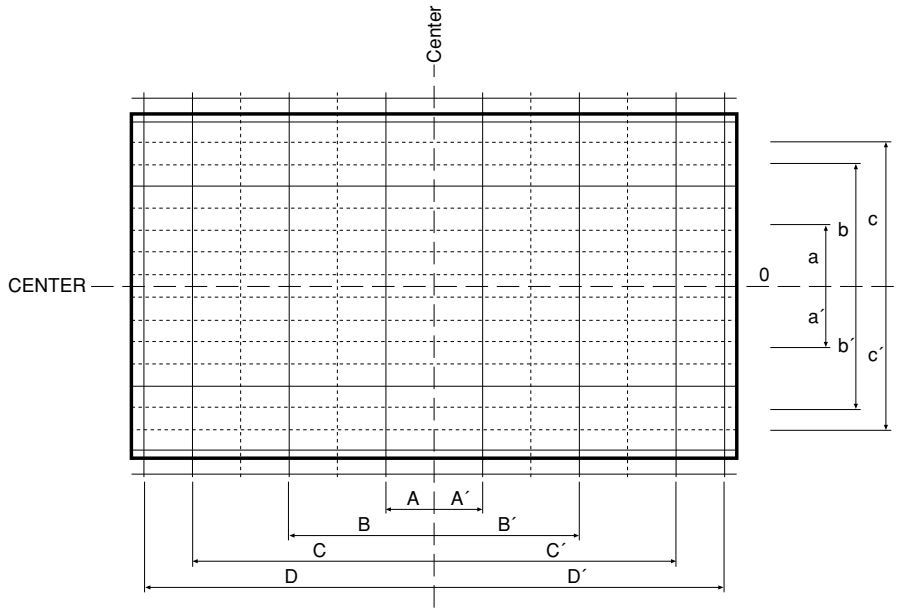
1) VERTICAL

MODEL	a, a'	b, b'	c, c'	d, d'
42	55.1	165.2	275.3	312
51	66.9	200.7	334.5	379.1

2) HORIZONTAL

MODEL	A, A'	B, B'	C, C'	D, D'
42	79.8	239.4	399	458.9
51	96.9	290.7	484.5	557.1

3-4 PAL 100Hz (Subtitle/14:9)



GEOMETRY

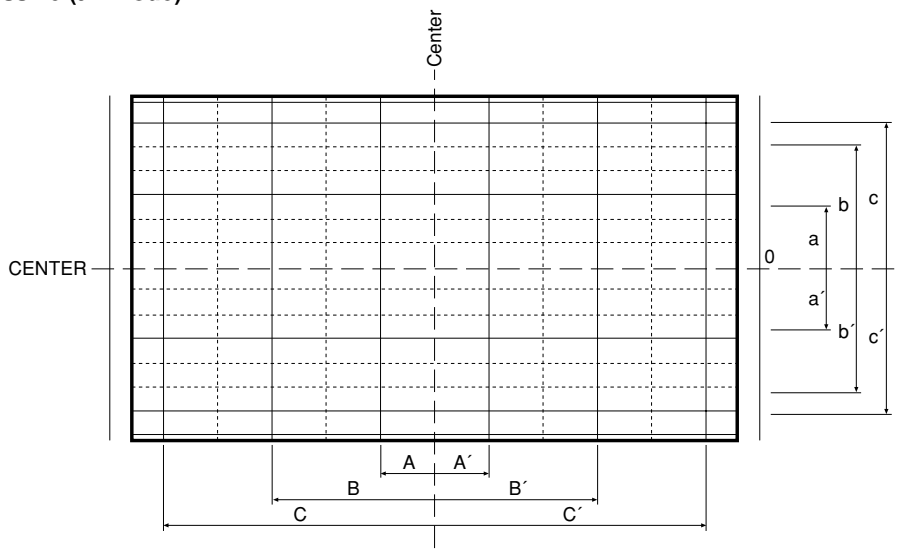
1) VERTICAL

MODEL	a, a'	b, b'	c, c'	d, d'
42	50.4	151.2	252	285.6
51	61.2	183.6	306.0	346.8

2) HORIZONTAL

MODEL	A, A'	B, B'	C, C'	D, D'
42	79.8	239.4	399	458.9
51	96.9	290.7	484.5	557.1

3-5 NTSC Progressive (all mode)



GEOMETRY

1) VERTICAL

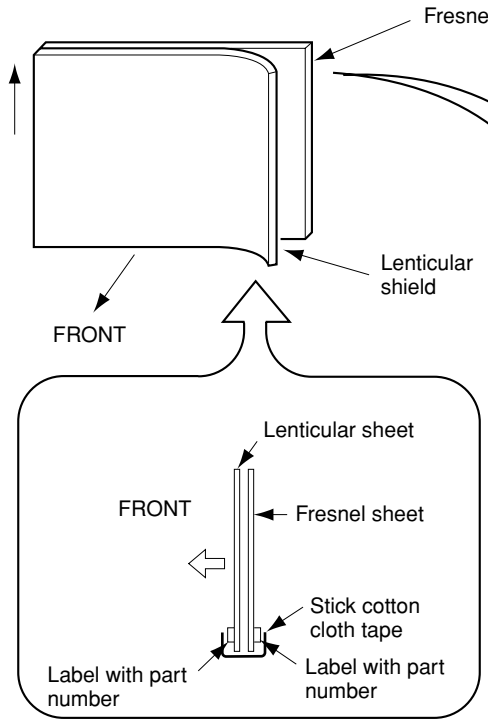
MODEL	a, a'	b, b'	c, c'
42	104.1	208.2	242.9
51	126.4	252.8	294.9

2) HORIZONTAL

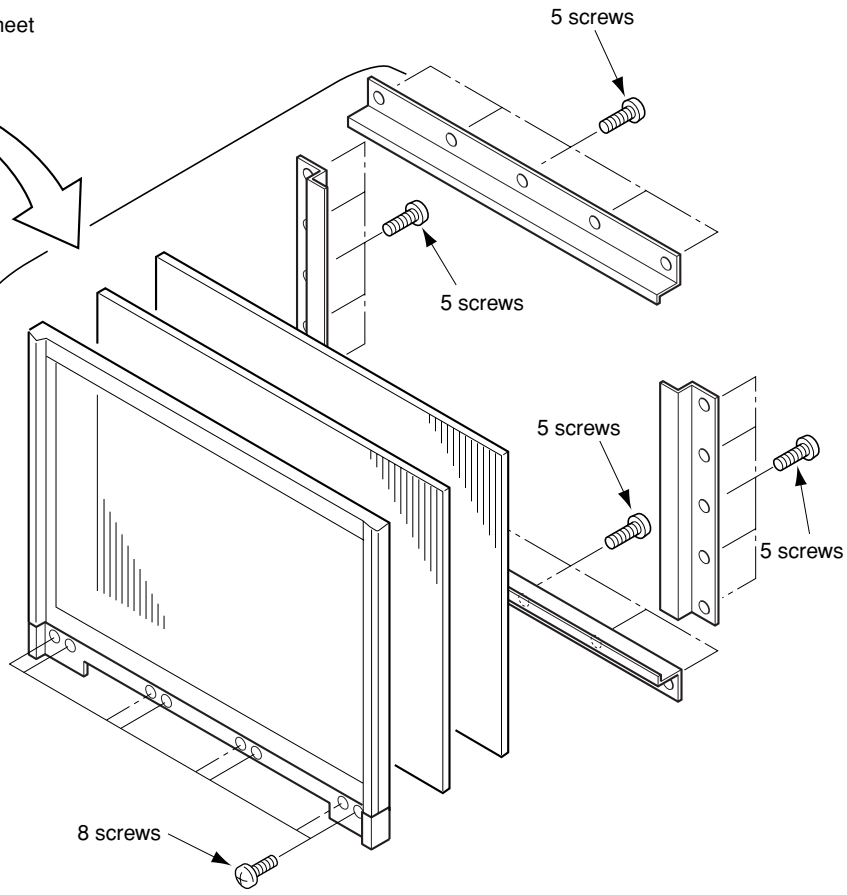
MODEL	A, A'	B, B'	C, C'	D, D'
42	79.8	239.4	399	458.9
51	96.9	290.7	485.4	557.1

SCREEN AND MIRROR ALIGNMENTS

ASSEMBLING OF FRONT SCREEN



MOUNTING OF FRONT SCREEN



* Please refer to Mechanical Disassembly on page 34 for 42".

CAUTION : Do not hold the optical system parts (lens and mirror) with bare hand to avoid finger-prints on the surface of those parts.

HOW TO CLEAN LENS AND MIRROR

1. Be sure to remove sand dust with an air brush, etc.
2. When it is stained slightly, breathe upon it and wipe away with the specified cleaning cloth.
   For other stains than the above, wipe the stains away with the specified cloth into which a cleaning liquid has been soaked.

Cleaning liquid..... **LENS LUSTER** (Manufactured by Edmund Scientific Co.), etc.

HOW TO CLEAN SCREEN

When cleaning the screen, use a soft cloth so as not to damage the screen.

1. Wipe the screen with a dry cloth to remove moisture on the screen.

Note : Absolutely do not use detergent, water, alcohol, benzine, thinner, etc. for cleaning in order not to wipe away the black print on the surface.

CIRCUIT CHECKS

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

1. Connect an accurate high voltage meter to the anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST to minimum (zero beam current).
3. High voltage must be measured below (B) kV.

   Refer to table-1 for high voltage (B).
   (See SETTING & ADJUSTING DATA on page 31)
4. Vary the BRIGHTNESS to both extremes to be sure the high voltage does not exceed the limit under any conditions.

CAUTION:

When the following parts fail, check the High Voltage after replacing.

Location No.	Name	Name
T461	Flyback Trans.	TFB3093AD/ TFB3093AS
C440	Capacitor	1000pF, ±3%
C443	Capacitor	4700pF, ±3%
C444	Capacitor	4700pF, ±3%
C467	Capacitor	3900pF, ±3%
C468	Capacitor	1000pF, ±3%
C4671	Capacitor	4700pF, ±3%

ANODE VOLTAGE MEASURING METHOD

CAUTION: Take extra precaution when measuring this high voltage. High voltages are also present in surrounding circuit boards (CRT DRIVE assembly, DEFLECTION assembly, and POWER SUPPLY assembly).

1. Disconnect the FBT anode cable as outlined below. Measure high voltage at the point where the cable enters the FBT.
2. Holding the rubber cover firmly, turn it counterclockwise and check that the lock has been disengaged. (See Fig. b on page 8.)
3. Determine the extent of the rubber cover before disconnecting the cable.
4. Pull straight up the anode cable to disconnect.
5. When reconnecting the cable, proceed in the reverse order.
   After reconnecting, tug on the cable to check that it is secure.

CHAPTER 2 SPECIFIC INFORMATIONS

SETTING & ADJUSTING DATA

【 SAFETY INSTRUCTIONS 】

		42", 51"
HIGH VOLTAGE AT ZERO BEAM:	(A)	29.8 kV
MAX HIGH VOLTAGE:	(B)	31.0 kV
AC VOLTAGE	(C)	220~240 V

Table-1

【 SERVICE MODE 】

ADJUSTING ITEMS AND DATAS IN THE SERVICE MODE:

Item	Adjustment	Reference data
RCUT	R CUTOFF (B/W)	40H
GCUT	G CUTOFF (B/W)	40H
BCUT	B CUTOFF (B/W)	40H
RDRV	R DRIVE	40H
BDRV	B DRIVE	40H
CNTX	SUB CONTRAST MAX	7FH
BRTC	SUB BRIGHT CEN	80H
COLC	SUB COLOR CEN NTSC	02H
TNTC	SUB TINT CEN	20H
COLP	SUB COLOR CEN PAL	0CH
COLS	SUB COLOR CEN SECAM	0CH
COLD	SUB COLOR CEN DTV	48H
SCNT	SUB CONTRAST	0FH
SRY	SECAM R-Y	07H
SBY	SECAM B-Y	04H

Item	Adjustment	Reference data
HPOS	50Hz H-POSITION	32H
VPS	V-CENTERRING	40H
HIT	HEIGHT	2BH
VLIN	V-LINEARITY	11H
VSC	V-S CORRECTION	2EH
VCP	V-COMPENSATION	05H
WID	PICTURE WIDTH	4CH
PARA	E-W PARABOLA	14H
PARA	E-W PARABOLA	13H (51")
CNR	E-W CORNER	12H
CNR	E-W CORNER	16H (51")
TRAP	TRAPEZIUM	47H
HCP	H-COMPENSATION	00H
VFC	V-F CORRECTION	08H
VCEN	V-POSITION (RASTER)	7CH

Table-2

【DESIGN MODE 】

ADJUSTING ITEMS AND DATAS IN THE DESIGN MODE:

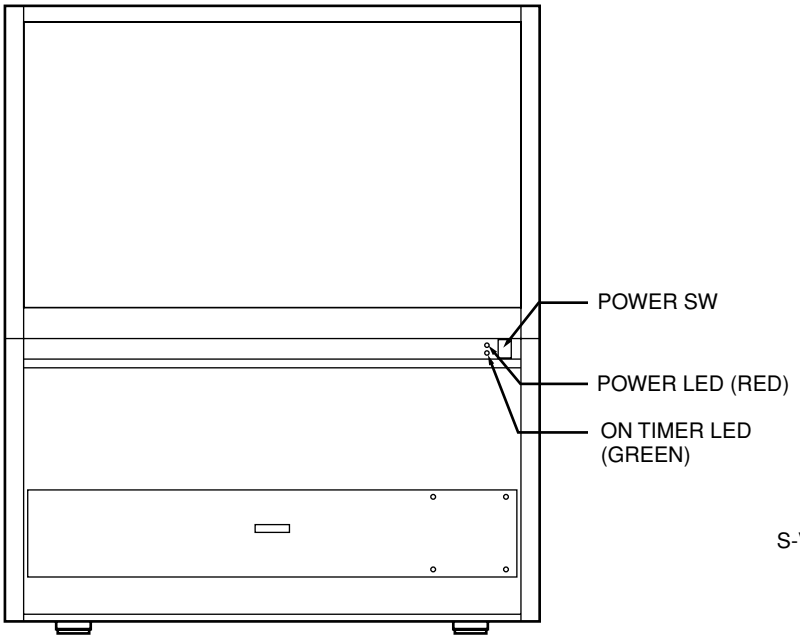
Item	Name of adjustment	Preset Data	42", 51"	Remarks
OPT0	OPTION 0	A0H	←	
OPT1	OPTION 1	4EH	←	
OPT2	OPTION 2	A0H	←	01h
OPT3	OPTION 3	00H	←	(Shipment for OK)
OPT4	OPTION 4	B3H	←	
OPT5	OPTION 5	8FH	←	

Table-3

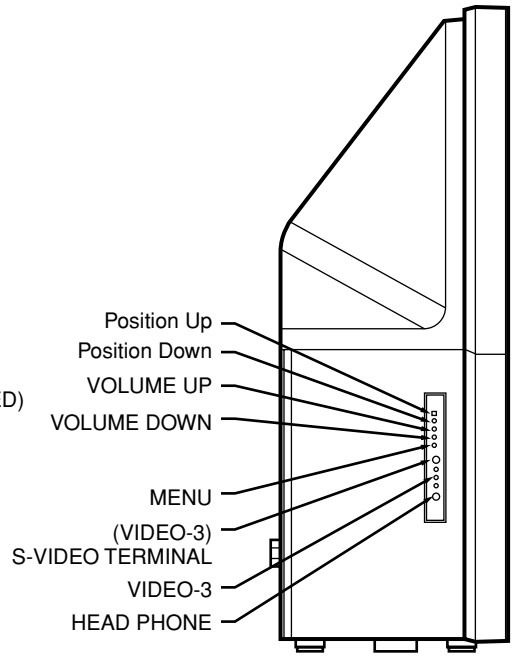
LOCATION OF CONTROLS

(Representative: 42WH36P)

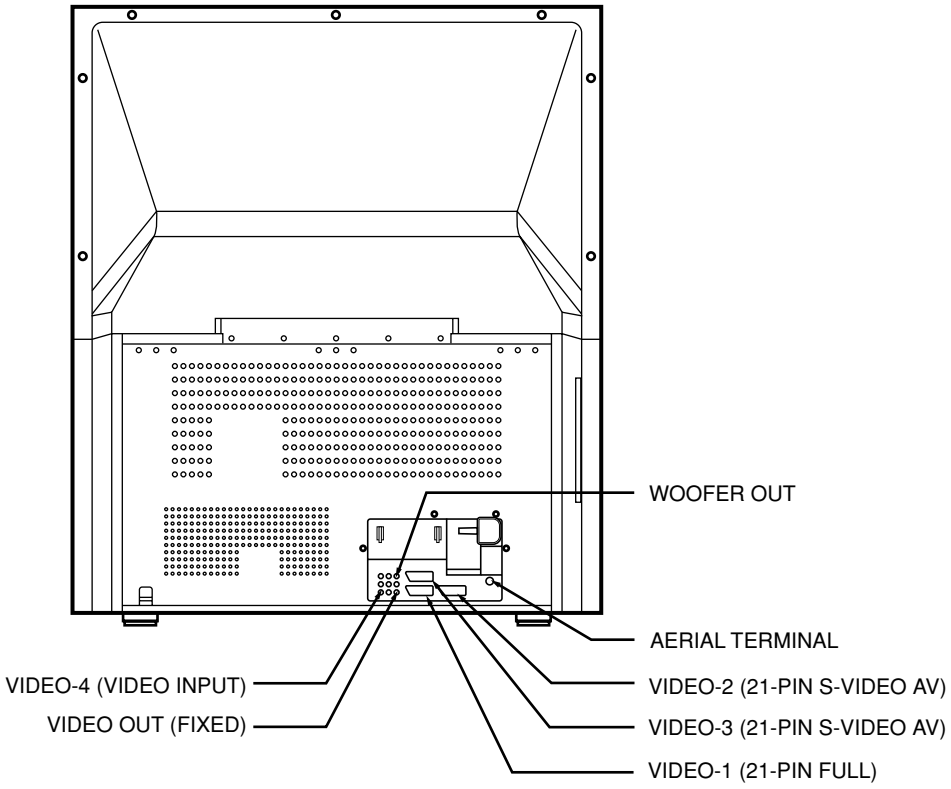
Front



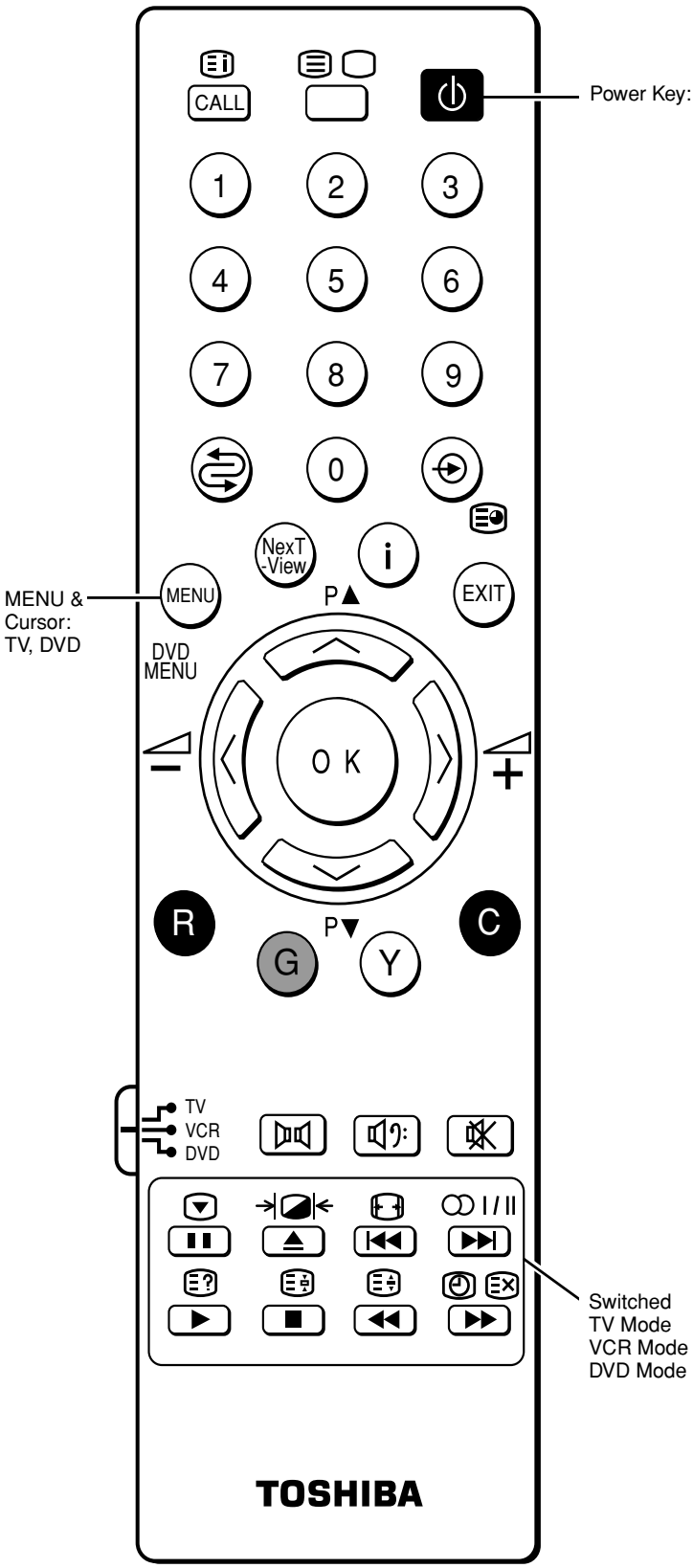
SIDE



Back



Remote Controller

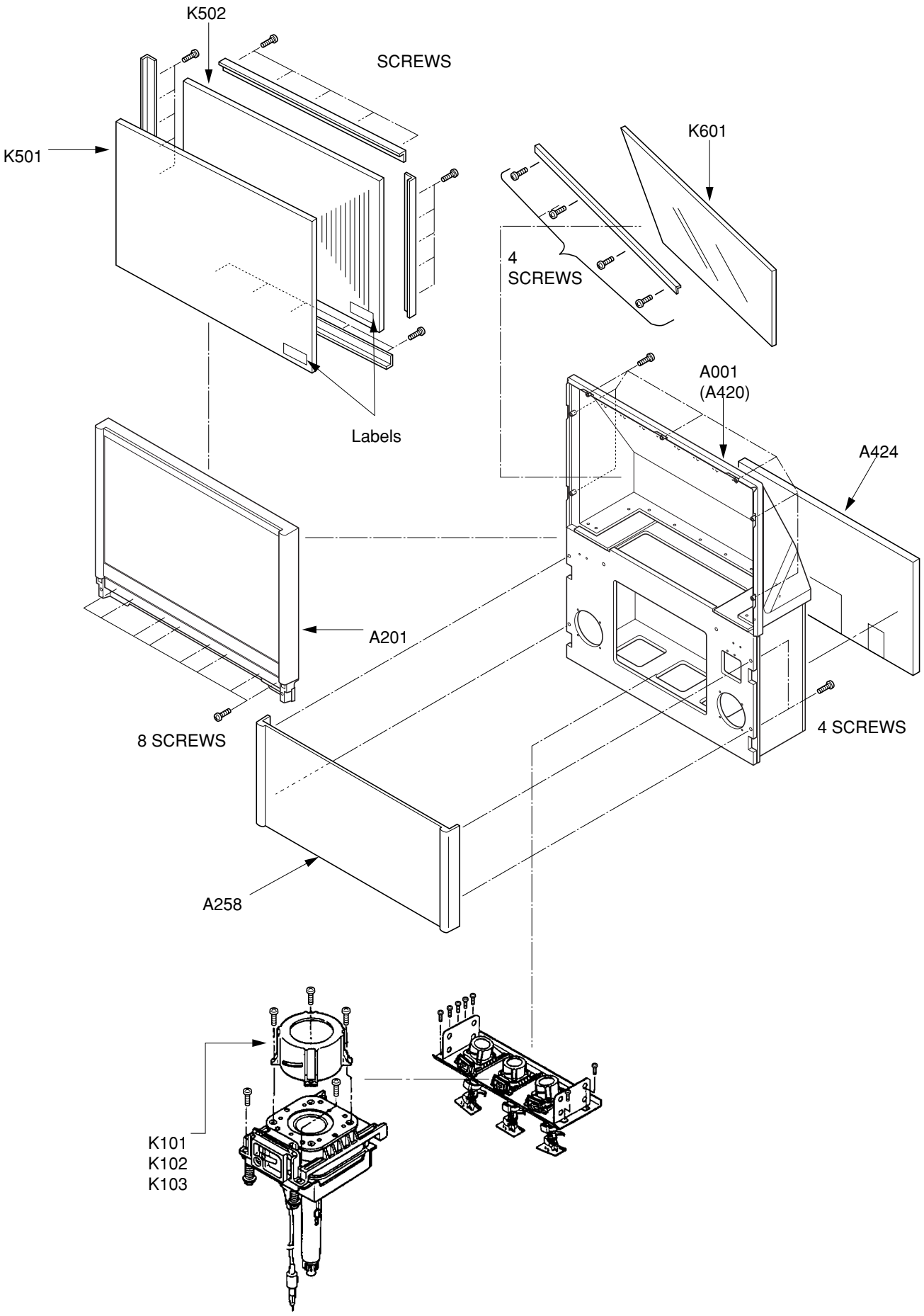


1. TEXT Sub Function
   <HOLD, REVEAL, F-T-B, TIME/TXCL, SUB PAGE>
   ---------- Only TV mode operation

2. VCR & DVD Common
   <Power, Play, Stop, Pause, Eject,
   FF, REV, Skip - FWD, Skip - REV>

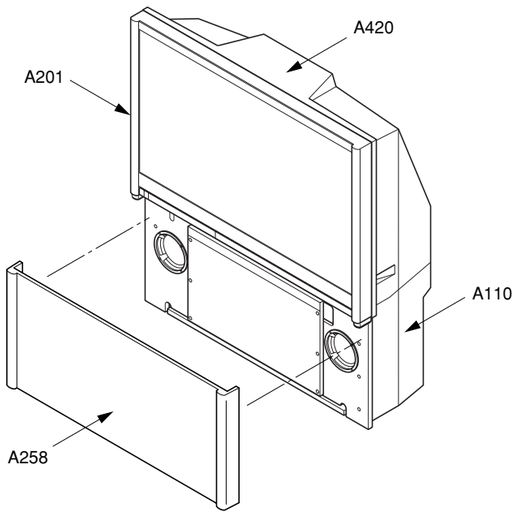
3. Key Name (by special characters)
   ---------- Power ON - Stanby
   ---------- TEXT INDEX
   ---------- TEXT / TV
   ---------- VIDEO INPUT
   ---------- SELECTABLE PICTURE
   ---------- MUTE
   ---------- VOLUME +, –
   ▲P▼ ---------- POSITION(CH.) Up/Down
   ---------- Size
   ---------- STILL PICTURE
   ---------- Sub Woofer
   ---------- SURROUND
   I/II ---------- Stereo Bilingual
   ---------- Previous Ch.
   i ---------- INFO.

MECHANICAL DISASSEMBLY (For 42WH36P)

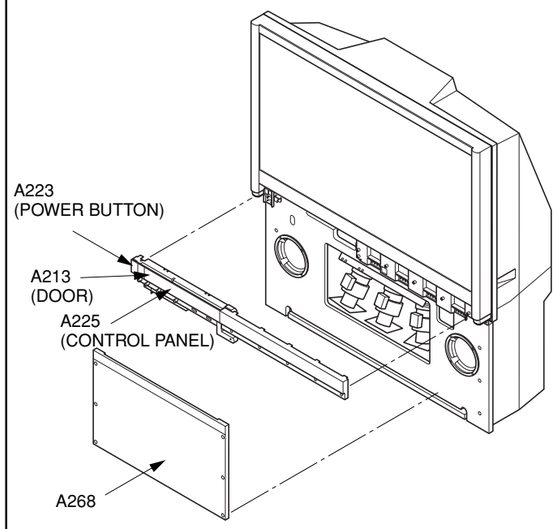


MECHANICAL DISASSEMBLY (For 51WH36P)

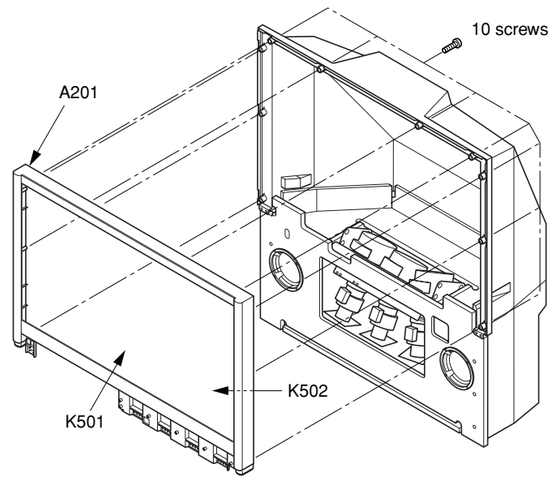
1 Speaker Grille Removal



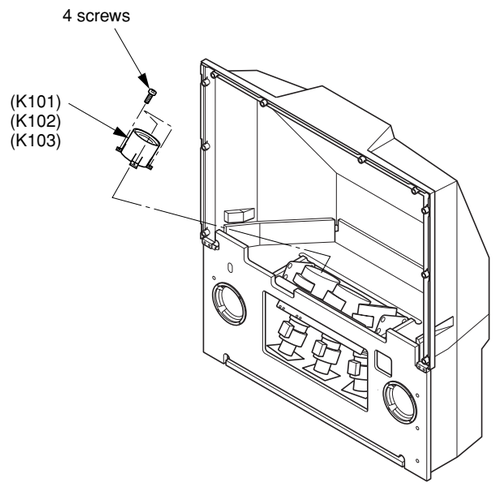
2 Control Panel Removal



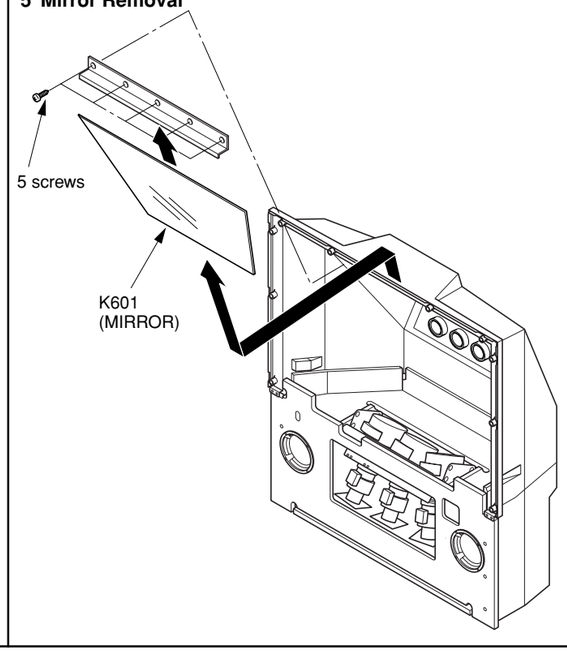
3 Front Mask Removal



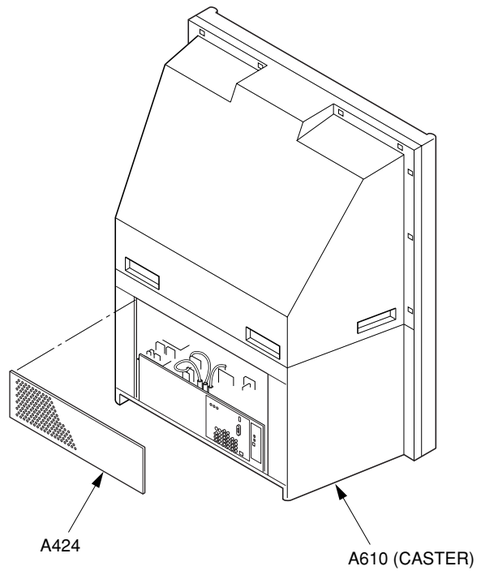
4 Lens Removal



5 Mirror Removal



6 Back Board Removal



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CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

NOTICE:
- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with * mark is no longer available after the end of the production.*

Model : 42WH36P, 51WH36P

Capacitors	CD	:	Ceramic Disk	PF	:	Plastic Film	EL	: Electrolytic
Resistors	CF	:	Carbon Film	CC	:	Carbon Composition	MF	: Metal Film
	OMF	:	Oxide Metal Film	VR	:	Variable Resistor	FR	: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Parts No.	Description
CAPACITORS		
C101	24796479	ELECTROLYTIC, 35V 4.7UF M
C102	24793221	ELECTROLYTIC, 10V 220UF M
C103	24109102	CERAMIC CHIP, 50V B 1000PF K
C104	24797100	ELECTROLYTIC, 50V 10UF M
C106	24109103	CERAMIC CHIP, 50V B 0.01UF K
C107	24109103	CERAMIC CHIP, 50V B 0.01UF K
C109	24109103	CERAMIC CHIP, 50V B 0.01UF K
C121	24794101	ELECTROLYTIC, 16V 100UF M
C122	24109103	CERAMIC CHIP, 50V B 0.01UF K
C123	24591224	PLASTIC FILM, 50V 0.22UF J
C205	24797229	ELECTROLYTIC, 50V 2.2UF M
C206	24794100	ELECTROLYTIC, 16V 10UF M
C271	24797229	ELECTROLYTIC, 50V 2.2UF M
C291	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C301	24503053	PLASTIC FILM, 63V 1UF J
C302	24669010	ELECTROLYTIC, 50V 1UF M 3A
C303	24503053	PLASTIC FILM, 63V 1UF J
C306	24109102	CERAMIC CHIP, 50V B 1000PF K
C307	24503051	PLASTIC FILM, 63V 0.68UF J
C308	24109123	CERAMIC CHIP CK73B, 50V 12000PF K
C309	24105102	CERAMIC CHIP, 25V CH 1000PF J
C310	24503049	PLASTIC FILM, 63V 0.47UF J
C311	24109103	CERAMIC CHIP, 50V B 0.01UF K
C312	24109332	CERAMIC CHIP, 50V B 3300PF K
C314	24092730	CERAMIC CHIP, 16V B 0.1UF K
C315	24073042	ELECTROLYTIC, 16V 1000UF M 3A
C316	24073042	ELECTROLYTIC, 16V 1000UF M 3A
C320	24073090	ELECTROLYTIC, 50V 100UF M 3A
C321	24073090	ELECTROLYTIC, 50V 100UF M 3A
C323	24109473	CERAMIC CHIP, 25V B 0.047UF K
C324	24073090	ELECTROLYTIC, 50V 100UF M 3A
C325	24503045	PLASTIC FILM, 63V 0.22UF J
C327	24092753	CERAMIC CHIP, 10V B 0.22UF K
C328	24082260	PLASTIC FILM, 100V 4700PF J
C330	24085946	ELECTROLYTIC, NONPOLAR, 16V 10UF M 3A
C332	24073091	ELECTROLYTIC, 50V 220UF M 3A
C333	24693473	PLASTIC FILM, 100V 0.047UF J
C334	24109471	CERAMIC CHIP, 50V B 470PF K
C338	24666330	ELECTROLYTIC, 16V 33UF M 3A
C340	24073036	ELECTROLYTIC, 16V 33UF M 3A

Location No.	Parts No.	Description
C350	24073057	ELECTROLYTIC, 25V 1000UF M 3A
C362	24109153	CERAMIC CHIP, 50V B 0.015UF K
C370	24073082	ELECTROLYTIC, 50V 2.2UF M 3A
C371	24092730	CERAMIC CHIP, 16V B 0.1UF K
C401	24214332	CERAMIC DISC, 500V B 3300PF K
C402	24214391	CERAMIC DISC, 500V B 390PF K
C403	24073050	ELECTROLYTIC, 25V 22UF M 3A
C405	24503042	PLASTIC FILM, 63V 0.12UF J
C412	24503192	PLASTIC FILM, 400V 0.15UF J
C415	24092478	CERAMIC DISC, 2KV B 470PF K
C416	24676220	ELECTROLYTIC, 100V 22UF M 3A
C417	24503141	PLASTIC FILM, 250V 1.5UF K
C423	24503142	PLASTIC FILM, 400V 0.27UF J
C425	24503142	PLASTIC FILM, 400V 0.27UF J
C426	24211222	CERAMIC DISC, 2KV B 2200PFK
C432	24567333	PLASTIC FILM, 50V 33000PF J
C440	24503059	PLASTIC FILM CF92 T 1800VH 1000PF H
C443	24503099	PLASTIC FILM, 1800VH 4700PF H
C444	24503099	PLASTIC FILM, 1800VH 4700PF H
C445	24828473	PLASTIC FILM, 200V 0.047UF J
C446	24073120	ELECTRPLYTIC, 250V 33UF, 250YXF33M
C448	24073118	ELECTROLYTIC, 160V 33UF M
C449	24214221	CERAMIC DISC, 500V B 220PF K
C460	24073120	ELECTRPLYTIC, 250V 33UF, 250YXF33M
C463	24092730	CERAMIC CHIP, 16V B 0.1UF K
C464	24503343	PLASTIC FILM, 100V 3.3UF K
C467	24820392	PLASTIC FILM, 630V 3900PF J
C468	24820103	PLASTIC FILM, 630V 0.01UF J
C470	24503343	PLASTIC FILM, 100V 3.3UF K
C481	24109103	CERAMIC CHIP, 50V B 0.01UF K
C482	24109822	CERAMIC CHIP, 50V B 8200PF K
C501	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C502	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C503	24794470	ELECTROLYTIC, 16V 47UF M
C504	24109103	CERAMIC CHIP, 50V B 0.01UF K
C505	24794470	ELECTROLYTIC, 16V 47UF M
C506	24109103	CERAMIC CHIP, 50V B 0.01UF K
C507	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C508	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C509	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C511	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C512	24100104	CERAMIC CHIP, 25V F 0.1UF Z

Location No.	Parts No.	Description
C513	24109103	CERAMIC CHIP, 50V B 0.01UF K
C514	24794470	ELECTROLYTIC, 16V 47UF M
C516	24105110	CERAMIC CHIP, 50V CH 11PF J
C517	24206478	ELECTROLYTIC, 50V 0.47UF M 7L 3A
C519	24797479	ELECTROLYTIC, 50V 4.7UF M
C520	24503047	PLASTIC FILM, 63V 0.33UF J
C521	24092733	CERAMIC CHIP, 50V B 0.022UF K
C522	24109103	CERAMIC CHIP, 50V B 0.01UF K
C523	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C524	24109103	CERAMIC CHIP, 50V B 0.01UF K
C525	24503041	PLASTIC FILM , 63V 0.1UF J
C526	24109103	CERAMIC CHIP, 50V B 0.01UF K
C527	24797229	ELECTROLYTIC, 50V 2.2UF M
C530	24206010	ELECTROLYTIC, 50V 1.0UF M 7L 3A
C531	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C532	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C533	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C534	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C536	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C537	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C538	24794101	ELECTROLYTIC, 16V 100UF M
C539	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C540	24109103	CERAMIC CHIP, 50V B 0.01UF K
C541	24109103	CERAMIC CHIP, 50V B 0.01UF K
C542	24109103	CERAMIC CHIP, 50V B 0.01UF K
C543	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C544	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C545	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C546	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C547	24109103	CERAMIC CHIP, 50V B 0.01UF K
C548	24763101	ELECTROLYTIC, 16V 100UF M
C549	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C551	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C552	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C553	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C554	24794101	ELECTROLYTIC, 16V 100UF M
C555	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C556	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C557	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C563	24206010	ELECTROLYTIC, 50V 1.0UF M 7L 3A
C564	24797229	ELECTROLYTIC, 50V 2.2UF M
C565	24797478	ELECTROLYTIC, 50V 0.47UF M
C575	24092538	CERAMIC CHIP, 10V F 1UF Z
C580	24794470	ELECTROLYTIC, 16V 47UF M
C581	24794470	ELECTROLYTIC, 16V 47UF M
C582	24794470	ELECTROLYTIC, 16V 47UF M
C583	24794470	ELECTROLYTIC, 16V 47UF M
C584	24794101	ELECTROLYTIC, 16V 100UF M
C585	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C586	24794470	ELECTROLYTIC, 16V 47UF M
C587	24794470	ELECTROLYTIC, 16V 47UF M
C591	24105220	CERAMIC CHIP, 50V CH 22PF J
C592	24105220	CERAMIC CHIP, 50V CH 22PF J
C593	24105220	CERAMIC CHIP, 50V CH 22PF J
C601	24669010	ELECTROLYTIC, 50V 1UF M 3A
C602	24669010	ELECTROLYTIC, 50V 1UF M 3A
C603	24591102	PLASTIC FILM, 50V 1000PF J
C604	24591102	PLASTIC FILM, 50V 1000PF J
C605	24669100	ELECTROLYTIC, 50V 10UF M 3A
C606	24669100	ELECTROLYTIC, 50V 10UF M 3A
C607	24667470	ELECTROLYTIC, 25V 47UF M 3A
C608	24667470	ELECTROLYTIC, 25V 47UF M 3A
C609	24668101	ELECTROLYTIC, 35V 100UF M 3A
C610	24669479	ELECTROLYTIC, 50V 4.7UF M 3A
C612	24669102	ELECTROLYTIC, 50V 1000UF M 3A
C613	24503042	PLASTIC FILM, 63V 0.12UF J
C614	24503042	PLASTIC FILM, 63V 0.12UF J

Location No.	Parts No.	Description
C615	24669102	ELECTROLYTIC, 50V 1000UF M 3A
C616	24669102	ELECTROLYTIC, 50V 1000UF M 3A
C617	24669220	ELECTROLYTIC, 50V 22UF M 3A
C618	24797478	ELECTROLYTIC, 50V 0.47UF M
C619	24794471	ELECTROLYTIC, 16V 470UF M
C621	24797220	ELECTROLYTIC, 50V 22UF M
C622	24591103	PLASTIC FILM, 50V 0.01UF J
C626	24797478	ELECTROLYTIC, 50V 0.47UF M
C627	24797220	ELECTROLYTIC, 50V 22UF M
C628	24797100	ELECTROLYTIC, 50V 10UF M
C629	24591124	PLASTIC FILM, 50V 0.12UF J
C631	24797479	ELECTROLYTIC, 50V 4.7UF M
C633	24795221	ELECTROLYTIC, 25V 220UF M
C634	24797221	ELECTROLYTIC, 50V 220UF M
C636	24797100	ELECTROLYTIC, 50V 10UF M
C660	24765101	ELECTROLYITC, 35V 100UF M
C704	24232103	CERAMIC DISC, 50V F 0.01UF Z
C705	24206479	ELECTROLYTIC, 50V 4.7UF M 7L 3A
C707	24797470	ELECTROLYTIC, 50V 47UF M
C712	24797470	ELECTROLYTIC, 50V 47UF M
C713	24790470	ELECTROLYTIC, 160V 47UF M
C715	24214472	CERAMIC DISC, 500V B 4700PF K
C717	24214472	CERAMIC DISC, 500V B 4700PF K
C718	24666470	ELECTORLYTIC, 16V 47UF M 3A
C719	24435560	CERAMIC DISC, 500V SL 56PF J
C720	24790100	ELECTROLYTIC, 160V 10UF M
C721	24666470	ELECTORLYTIC, 16V 47UF M 3A
C722	24436820	CERAMIC DISC, 50V SL 82PF J
C726	24212102	CERAMIC DISC, 50V B 1000PF K
C760	24797470	ELECTROLYTIC, 50V 47UF M
C761	24212102	CERAMIC DISC, 50V B 1000PF K
C762	24797470	ELECTROLYTIC, 50V 47UF M
C765	24214472	CERAMIC DISC, 500V B 4700PF K
C766	24214472	CERAMIC DISC, 500V B 4700PF K
C767	24790470	ELECTROLYTIC, 160V 47UF M
C768	24666470	ELECTORLYTIC, 16V 47UF M 3A
C769	24666470	ELECTORLYTIC, 16V 47UF M 3A
C770	24435560	CERAMIC DISC, 500V SL 56PF J
C771	24790100	ELECTROLYTIC, 160V 10UF M
C781	24212102	CERAMIC DISC, 50V B 1000PF K
C782	24797100	ELECTROLYTIC, 50V 10UF M
C784	24214472	CERAMIC DISC, 500V B 4700PF K
C786	24214472	CERAMIC DISC, 500V B 4700PF K
C787	24790470	ELECTROLYTIC, 160V 47UF M
C788	24666470	ELECTORLYTIC, 16V 47UF M 3A
C789	24666470	ELECTORLYTIC, 16V 47UF M 3A
C790	24435560	CERAMIC DISC, 500V SL 56PF J
C791	24790100	ELECTROLYTIC, 160V 10UF M
C792	24232103	CERAMIC DISC, 50V F 0.01UF Z
C813	24667101	ELECTROLYTIC, 25V 100UF M 3A
C856	24669100	ELECTROLYTIC, 50V 10UF M 3A
C859	24669220	ELECTROLYTIC, 50V 22UF M 3A
C890	24669100	ELECTROLYTIC, 50V 10UF M 3A
C892	24669220	ELECTROLYTIC, 50V 22UF M 3A
C893	24669100	ELECTROLYTIC, 50V 10UF M 3A
C894	24669220	ELECTROLYTIC, 50V 22UF M 3A
C895	24669100	ELECTROLYTIC, 50V 10UF M 3A
C896	24669220	ELECTROLYTIC, 50V 22UF M 3A
C901	24211102	CERAMIC DISC, 2KV B 1000PF K
C902	24794100	ELECTROLYTIC, 16V 10UF M
C903	24232103	CERAMIC DISC, 50V F 0.01UF Z
C904	24436471	CERAMIC DISC, 50V SL 470PF J
C907	24214101	CERAMIC DISC, 500V B 100PF K
C911	24211102	CERAMIC DISC, 2KV B 1000PF K
C912	24794100	ELECTROLYTIC, 16V 10UF M
C913	24232103	CERAMIC DISC, 50V F 0.01UF Z
C914	24436471	CERAMIC DISC, 50V SL 470PF J

Location No.	Parts No.	Description
C915	24679330	ELECTROLYTIC, 250V 33UF M 3A
C917	24214101	CERAMIC DISC, 500V B 100PF K
C921	24211102	CERAMIC DISC, 2KV B 1000PF K
C922	24794100	ELECTROLYTIC, 16V 10UF M
C923	24436471	CERAMIC DISC, 50V SL 470PF J
C924	24232103	CERAMIC DISC, 50V F 0.01UF Z
C926	24214101	CERAMIC DISC, 500V B 100PF K
C961	24794100	ELECTROLYTIC, 16V 10UF M
C962	24794100	ELECTROLYTIC, 16V 10UF M
C2110	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C4401	24763221	ELECTROLYTIC, 16V 220UF M
C4402	24109103	CERAMIC CHIP, 50V B 0.01UF K
C4403	24797010	ELECTROLYTIC, 50V 1UF M
C4404	24109103	CERAMIC CHIP, 50V B 0.01UF K
C4405	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C4406	24109103	CERAMIC CHIP, 50V B 0.01UF K
C4410	24109471	CERAMIC CHIP, 50V B 470PF K
C4412	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C4430	24794101	ELECTROLYTIC, 16V 100UF M
C4451	24073038	ELECTROLYTIC, 16V 100UF M 3A
C4465	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C4671	24820472	PLASTIC FILM, 630V 4700PF J
C5020	24109103	CERAMIC CHIP, 50V B 0.01UF K
C5030	24763101	ELECTROLYTIC, 16V 100UF M
C5080	24206010	ELECTROLYTIC, 50V 1.0UF M 7L 3A
C5090	24763101	ELECTROLYTIC, 16V 100UF M
C7701	24567334	PLASTIC FILM, 50V 0.33UF J
C7704	24073053	ELECTROLYTIC, 25V 100UF M 3A
C7705	24073053	ELECTROLYTIC, 25V 100UF M 3A
C7706	24567334	PLASTIC FILM, 50V 0.33UF J
C7721	24105102	CERAMIC CHIP, 25V CH 1000PF J
C7722	24105331	CERAMIC CHIP, 50V CH 330PF J
C7724	24073090	ELECTROLYTIC, 50V 100UF M 3A
C7725	24073090	ELECTROLYTIC, 50V 100UF M 3A
C7726	24105102	CERAMIC CHIP, 25V CH 1000PF J
C7727	24105331	CERAMIC CHIP, 50V CH 330PF J
C7729	24105102	CERAMIC CHIP, 25V CH 1000PF J
C7730	24105331	CERAMIC CHIP, 50V CH 330PF J
C7732	24105102	CERAMIC CHIP, 25V CH 1000PF J
C7733	24105331	CERAMIC CHIP, 50V CH 330PF J
C7735	24073090	ELECTROLYTIC, 50V 100UF M 3A
C7736	24073090	ELECTROLYTIC, 50V 100UF M 3A
C7737	24105102	CERAMIC CHIP, 25V CH 1000PF J
C7738	24105331	CERAMIC CHIP, 50V CH 330PF J
C7740	24105102	CERAMIC CHIP, 25V CH 1000PF J
C7741	24105331	CERAMIC CHIP, 50V CH 330PF J
C7766	24667221	ELECTROLYTIC, 25V 220UF M 3A
C7769	24109103	CERAMIC CHIP, 50V B 0.01UF K
C7774	24092730	CERAMIC CHIP, 16V B 0.1UF K
C7775	24092730	CERAMIC CHIP, 16V B 0.1UF K
C7776	24092730	CERAMIC CHIP, 16V B 0.1UF K
C7777	24092730	CERAMIC CHIP, 16V B 0.1UF K
C7779	24105331	CERAMIC CHIP, 50V CH 330PF J
C7780	24436471	CERAMIC DISC, 50V SL 470PF J
C7783	24436471	CERAMIC DISC, 50V SL 470PF J
C7788	24353101	CERAMIC DISC, 50V CH 100PF J
C7789	24591472	PLASTIC FILM, 50V 4700PF J
C7791	24073056	ELECTROLYTIC, 25V 470UF M 3A
C7792	24591472	PLASTIC FILM, 50V 4700PF J
C7793	24567104	PLASTIC FILM, 50V 0.1UF J
C7794	24567104	PLASTIC FILM, 50V 0.1UF J
C7796	24073091	ELECTROLYTIC, 50V 220UF M 3A
C7797	24073094	ELECTROLYTIC, 50V 1000UF M 3A
C7798	24073091	ELECTROLYTIC, 50V 220UF M 3A
C7810	24092511	CERAMIC CHIP, 50V CH 470PF B
C7811	24105561	CERAMIC CHIP, 50V CH 560PF J
C7812	24109103	CERAMIC CHIP, 50V B 0.01UF K

Location No.	Parts No.	Description
C7817	24591222	PLASTIC FILM, 50V 2200PF J
C7818	24591102	PLASTIC FILM, 50V 1000PF J
C7819	24591102	PLASTIC FILM, 50V 1000PF J
C7820	24591222	PLASTIC FILM, 50V 2200PF J
C7821	24669010	ELECTROLYTIC, 50V 1UF M 3A
C7822	24503053	PLASTIC FILM, 63V 1UF J
CA03	24105180	CERAMIC CHIP, 50V CH 18PF J
CA04	24105180	CERAMIC CHIP, 50V CH 18PF J
CA13	24105101	CERAMIC CHIP, 50V CH 100PF J
CA14	24105101	CERAMIC CHIP, 50V CH 100PF J
CA15	24793470	ELECTROLYTIC CE04G 10V 47UF M
CA42	24794101	ELECTROLYTIC, 16V 100UF M
CA43	24109103	CERAMIC CHIP, 50V B 0.01UF K
CA44	24109103	CERAMIC CHIP, 50V B 0.01UF K
CA45	24109103	CERAMIC CHIP, 50V B 0.01UF K
CA68	24794100	ELECTROLYTIC, 16V 10UF M
CA69	24100103	CERAMIC CHIP, 50V F 0.01UF Z
CA71	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CA80	24794470	ELECTROLYTIC, 16V 47UF M
CA81	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CA83	24092538	CERAMIC CHIP, 10V F 1UF Z
CA84	24092538	CERAMIC CHIP, 10V F 1UF Z
CB01	24794470	ELECTROLYTIC, 16V 47UF M
CB04	24092538	CERAMIC CHIP, 10V F 1UF Z
CB05	24109222	CERAMIC CHIP, 50V B 2200PF K
CB06	24105561	CERAMIC CHIP, 50V CH 560PF J
CB07	24109332	CERAMIC CHIP, 50V B 3300PF K
CB40	24092538	CERAMIC CHIP, 10V F 1UF Z
CB41	24109222	CERAMIC CHIP, 50V B 2200PF K
CB42	24105561	CERAMIC CHIP, 50V CH 560PF J
CB43	24109332	CERAMIC CHIP, 50V B 3300PF K
CB90	24100103	CERAMIC CHIP, 50V F 0.01UF Z
CC04	24105220	CERAMIC CHIP, 50V CH 22PF J
CC21	24109102	CERAMIC CHIP, 50V B 1000PF K
CC24	24109103	CERAMIC CHIP, 50V B 0.01UF K
CC25	24109103	CERAMIC CHIP, 50V B 0.01UF K
CC31	24109102	CERAMIC CHIP, 50V B 1000PF K
CC47	24212332	CERAMIC DISC, 50V B 3300PF K
CC48	24212332	CERAMIC DISC, 50V B 3300PF K
CC51	24232103	CERAMIC DISC, 50V F 0.01UF Z
CC52	24232103	CERAMIC DISC, 50V F 0.01UF Z
CC60	24109223	CERAMIC CHIP, 25V B 0.022UF K
CC61	24109223	CERAMIC CHIP, 25V B 0.022UF K
CC62	24109102	CERAMIC CHIP, 50V B 1000PF K
CC63	24109102	CERAMIC CHIP, 50V B 1000PF K
CC64	24109102	CERAMIC CHIP, 50V B 1000PF K
CC65	24109102	CERAMIC CHIP, 50V B 1000PF K
CC66	24109102	CERAMIC CHIP, 50V B 1000PF K
CC67	24109102	CERAMIC CHIP, 50V B 1000PF K
CC68	24109223	CERAMIC CHIP, 25V B 0.022UF K
CC69	24109102	CERAMIC CHIP, 50V B 1000PF K
CC70	24109102	CERAMIC CHIP, 50V B 1000PF K
CC71	24109223	CERAMIC CHIP, 25V B 0.022UF K
CC72	24109102	CERAMIC CHIP, 50V B 1000PF K
CC73	24109102	CERAMIC CHIP, 50V B 1000PF K
CC74	24109102	CERAMIC CHIP, 50V B 1000PF K
CC75	24109102	CERAMIC CHIP, 50V B 1000PF K
CC77	24109102	CERAMIC CHIP, 50V B 1000PF K
CC78	24109102	CERAMIC CHIP, 50V B 1000PF K
CC91	24109103	CERAMIC CHIP, 50V B 0.01UF K
CC92	24109103	CERAMIC CHIP, 50V B 0.01UF K
CE82	24617026	ELECTROLYTIC, 16V 820UF M
CE83	24503041	PLASTIC FILM , 63V 0.1UF J
CE84	24214221	CERAMIC DISC, 500V B 220PF K
CE85	24503041	PLASTIC FILM , 63V 0.1UF J
CE86	24617026	ELECTROLYTIC, 16V 820UF M
CF01	24203101	ELECTROLYTIC, 16V 100UF M 7L 3A

Location No.	Parts No.	Description
CF02	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF03	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF04	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF05	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF06	24201101	ELECTROLYTIC, 6.3V 100UF M 7L 3A
CF08	24092538	CERAMIC CHIP, 10V F 1UF Z
CF09	24109102	CERAMIC CHIP, 50V B 1000PF K
CF10	24092538	CERAMIC CHIP, 10V F 1UF Z
CF11	24109102	CERAMIC CHIP, 50V B 1000PF K
CF12	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF13	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF14	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF15	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF16	24201101	ELECTROLYTIC, 6.3V 100UF M 7L 3A
CF17	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF18	24092538	CERAMIC CHIP, 10V F 1UF Z
CF19	24109102	CERAMIC CHIP, 50V B 1000PF K
CF20	24105220	CERAMIC CHIP, 50V CH 22PF J
CF21	24105220	CERAMIC CHIP, 50V CH 22PF J
CF22	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF23	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF24	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF25	24092538	CERAMIC CHIP, 10V F 1UF Z
CF26	24109102	CERAMIC CHIP, 50V B 1000PF K
CF27	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF28	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF29	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF30	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF31	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF32	24203100	ELECTORLYTIC, 16V 10UF M 7L 3A
CF33	24105330	CERAMIC CHIP, 50V CH 33PF J
CF34	24092538	CERAMIC CHIP, 10V F 1UF Z
CF38	24203100	ELECTORLYTIC, 16V 10UF M 7L 3A
CF39	24109103	CERAMIC CHIP, 50V B 0.01UF K
CF40	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF41	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF42	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF43	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF44	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF45	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF46	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF47	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF48	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF49	24000445	CHIP JUMPER, 1608TYPE
CF50	24203100	ELECTORLYTIC, 16V 10UF M 7L 3A
CF51	24109102	CERAMIC CHIP, 50V B 1000PF K
CF52	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CF55	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CG01	24503056	PLASTIC FILM, AC275V 0.1UF M
CG05	24092553	CERAMIC DISC, AC250V B 470PF K
CG06	24073101	ELECTROLYTIC CE04Q 400V 47UF M 3A
CG07	24503049	PLASTIC FILM, 63V 0.47UF J
CG08	24214471	CERAMIC DISC, 500V B 470PF K
CG10	24667331	ELECTROLYTIC, 25V 330UF M 3A
CG11	24667470	ELECTROLYTIC, 25V 47UF M 3A
CG12	24212681	CERAMIC DISC, 50V B 680PF K
CG13	24092333	CERAMIC DISC, 2KV 100PF K
CG20	24676470	ELECTROLYTIC, 100V 47UF M 3A
CG27	24666222	ELECTROLYTIC, 16V 2200UF M 3A
CG34	24666101	ELECTROLYTIC, 16V 100UF M 3A
CG35	24665470	ELECTROLYTIC, 10V 47UF M 3A
CG62	24214471	CERAMIC DISC, 500V B 470PF K
CG65	24214471	CERAMIC DISC, 500V B 470PF K
CR01	24794470	ELECTROLYTIC, 16V 47UF M
CR02	24109103	CERAMIC CHIP, 50V B 0.01UF K
CR03	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR04	24100104	CERAMIC CHIP, 25V F 0.1UF Z

Location No.	Parts No.	Description
CR05	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR06	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR07	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR08	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR09	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR12	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR13	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR14	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CS01	24797229	ELECTROLYTIC, 50V 2.2UF M
CS02	24797229	ELECTROLYTIC, 50V 2.2UF M
CS03	24797229	ELECTROLYTIC, 50V 2.2UF M
CS04	24797229	ELECTROLYTIC, 50V 2.2UF M
CS05	24797229	ELECTROLYTIC, 50V 2.2UF M
CS06	24797229	ELECTROLYTIC, 50V 2.2UF M
CS07	24797229	ELECTROLYTIC, 50V 2.2UF M
CS08	24797229	ELECTROLYTIC, 50V 2.2UF M
CS09	24797229	ELECTROLYTIC, 50V 2.2UF M
CS10	24797229	ELECTROLYTIC, 50V 2.2UF M
CS11	24794100	ELECTROLYTIC, 16V 10UF M
CS12	24794100	ELECTROLYTIC, 16V 10UF M
CS13	24794100	ELECTROLYTIC, 16V 10UF M
CS14	24794100	ELECTROLYTIC, 16V 10UF M
CS18	24794100	ELECTROLYTIC, 16V 10UF M
CS19	24794100	ELECTROLYTIC, 16V 10UF M
CS20	24797478	ELECTROLYTIC, 50V 0.47UF M
CS24	24797229	ELECTROLYTIC, 50V 2.2UF M
CS25	24797229	ELECTROLYTIC, 50V 2.2UF M
CS26	24794100	ELECTROLYTIC, 16V 10UF M
CS27	24797479	ELECTROLYTIC, 50V 4.7UF M
CS28	24797479	ELECTROLYTIC, 50V 4.7UF M
CS29	24797479	ELECTROLYTIC, 50V 4.7UF M
CS30	24797479	ELECTROLYTIC, 50V 4.7UF M
CS31	24797479	ELECTROLYTIC, 50V 4.7UF M
CS32	24797479	ELECTROLYTIC, 50V 4.7UF M
CS33	24795470	ELECTROLYTIC, 25V 47UF M
CV02	24092538	CERAMIC CHIP, 10V F 1UF Z
CV03	24092538	CERAMIC CHIP, 10V F 1UF Z
CV04	24092538	CERAMIC CHIP, 10V F 1UF Z
CV06	24092538	CERAMIC CHIP, 10V F 1UF Z
CV07	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV08	24203101	ELECTROLYTIC, 16V 100UF M 7L 3A
CV09	24092538	CERAMIC CHIP, 10V F 1UF Z
CV10	24794100	ELECTROLYTIC, 16V 10UF M
CV12	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV13	24794100	ELECTROLYTIC, 16V 10UF M
CV14	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV15	24092743	CERAMIC CHIP, 10V F 0.47UF Z
CV23	24203101	ELECTROLYTIC, 16V 100UF M 7L 3A
CV24	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV25	24794470	ELECTROLYTIC, 16V 47UF M
CV28	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV35	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV36	24092743	CERAMIC CHIP, 10V F 0.47UF Z
CV39	24794101	ELECTROLYTIC, 16V 100UF M
CV40	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV42	24092538	CERAMIC CHIP, 10V F 1UF Z
CV44	24092743	CERAMIC CHIP, 10V F 0.47UF Z
CV47	24232103	CERAMIC DISC, 50V F 0.01UF Z
CV65	24203101	ELECTROLYTIC, 16V 100UF M 7L 3A
CV66	24203101	ELECTROLYTIC, 16V 100UF M 7L 3A
CV70	24794100	ELECTROLYTIC, 16V 10UF M
CV71	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV72	24092538	CERAMIC CHIP, 10V F 1UF Z
CV73	24092538	CERAMIC CHIP, 10V F 1UF Z
CV74	24092538	CERAMIC CHIP, 10V F 1UF Z
CV75	24092538	CERAMIC CHIP, 10V F 1UF Z
CV76	24092538	CERAMIC CHIP, 10V F 1UF Z

Location No.	Parts No.	Description
CV77	24092538	CERAMIC CHIP, 10V F 1UF Z
CX01	24762471	ELECTROLYTIC, 10V 470UF M
CY01	24762471	ELECTROLYTIC, 10V 470UF M
CZ01	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CZ02	24109103	CERAMIC CHIP, 50V B 0.01UF K
CZ03	24109103	CERAMIC CHIP, 50V B 0.01UF K
CZ04	24109103	CERAMIC CHIP, 50V B 0.01UF K
CZ05	24109103	CERAMIC CHIP, 50V B 0.01UF K
CZ06	24105102	CERAMIC CHIP, 25V CH 1000PF J
CZ07	24109103	CERAMIC CHIP, 50V B 0.01UF K
CZ08	24105390	CERAMIC CHIP, 50V CH 39PF J
CZ38	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CZ46	24109103	CERAMIC CHIP, 50V B 0.01UF K
CZ47	24109103	CERAMIC CHIP, 50V B 0.01UF K
RESISTORS		
R101	24383153	OXIDE METAL FILM, 2W 15K OHM J
R241	24367473	CARBON FILM, 1/6W 47K OHM G
R242	24367153	CARBON FILM, 1/6W 15K OHM G
R243	24367123	CARBON FILM, 1/6W 12K OHM G
R244	24366823	CARBON FILM, 1/6W 82K OHM J
R245	24366123	CARBON FILM, 1/6W 12K OHM J
R245	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R246	24366103	CARBON FILM, 1/6W 10K OHM J
R247	24366102	CARBON FILM, 1/6W 1K OHM J
R271	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R272	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R273	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R274	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R275	24011683	CHIP, METAL FILM, 1/20W 68K OHM J
R276	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R295	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R296	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R302	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R305	24322828	OXIDE METAL FILM, 1W 0.82 OHM J
R306	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R307	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R308	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R309	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R311	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R312	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R313	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R314	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R315	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
R321	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R325	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R330	24000633	METAL FILM, 1/4W 10K OHM F
R331	24000633	METAL FILM, 1/4W 10K OHM F
R334	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R335	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R336	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R337	24321129	OXIDE METAL FILM, 1/2W 1.2 OHM J
R338	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
R341	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
R343	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R344	24382151	OXIDE METAL FILM, 1W 150 OHM J
R345	24011100	CHIP, METAL FILM, 1/20W 10 OHM J
R346	24382391	OXIDE METAL FILM, 1W 390 OHM J
R348	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
R349	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R350	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R355	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R360	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R362	24011683	CHIP, METAL FILM, 1/20W 68K OHM J
R363	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R365	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R370	24011102	CHIP, METAL FILM, 1/20W 1K OHM J

Location No.	Parts No.	Description
R371	24011823	CHIP, METAL FILM, 1/20W 82K OHM J
R372	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R373	24011823	CHIP, METAL FILM, 1/20W 82K OHM J
R374	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R375	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R377	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R378	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R379	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R381	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R382	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R383	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R384	24011683	CHIP, METAL FILM, 1/20W 68K OHM J
R385	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
R390	24382561	OXIDE METAL FILM, 1W 560 OHM J
R391	24382561	OXIDE METAL FILM, 1W 560 OHM J
R392	24382561	OXIDE METAL FILM, 1W 560 OHM J
R403	24382101	OXIDE METAL FILM, 1W 100 OHM J
R404	24366272	CARBON FILM, 1/6W 2.7K OHM J
R405	24366101	CARBON FILM, 1/6W 100 OHM J
R406	24382102	OXIDE METAL FILM, 1W 1K OHM J
R407	24381100	OXIDE METAL FILM, 1/2W 10 OHM J
R409	24555220	OXIDE METAL FILM, 3W 22 OHM J
R410	24555220	OXIDE METAL FILM, 3W 22 OHM J
R411	24323479	METAL FILM, 2W 4.7 OHM J
R412	24383153	OXIDE METAL FILM, 2W 15K OHM J
R413	24366101	CARBON FILM, 1/6W 100 OHM J
R414	24019259	FUSIBLE, 1/4W 27 OHM G
R415	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R416	24383101	OXIDE METAL FILM, 2W 100 OHM J
R418	24382104	OXIDE METAL FILM, 1W 100K OHM J
R419	24942102	CARBON COMPOSITION, 1/2W 1K OHM J
R420	24366103	CARBON FILM, 1/6W 10K OHM J
R421	24366223	CARBON FILM, 1/6W 22K OHM J
R422	24366223	CARBON FILM, 1/6W 22K OHM J
R423	24942102	CARBON COMPOSITION, 1/2W 1K OHM J
R424	24376104	CARBON FILM, 1/2W 10OK OHM J
R425	24376104	CARBON FILM, 1/2W 10OK OHM J
R431	24383102	OXIDE METAL FILM, 2W 1K OHM J
R432	24376274	CARBON FILM, 1/2W 270K OHM J
R433	24376274	CARBON FILM, 1/2W 270K OHM J
R434	24376274	CARBON FILM, 1/2W 270K OHM J
R435	24366472	CARBON FILM, 1/6W 4.7K OHM J
R441	24533331	FUSIBLE, 2W 330 OHM J
R443	24988011	METAL FILM, 1/2W 1 OHM J
R444	24322398	OXIDE METAL FILM, 1W 0.39 OHM J
R446	24366103	CARBON FILM, 1/6W 10K OHM J
R447	24382473	OXIDE METAL FILM, 1W 47K OHM J
R448	24366822	CARBON FILM, 1/6W 8.2K OHM J
R449	24366152	CARBON FILM, 1/6W 1.5K OHM J
R466	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R467	24011563	CHIP, METAL FILM, 1/20W 56K OHM J
R469	24366101	CARBON FILM, 1/6W 100 OHM J
R470	24366224	CARBON FILM, 1/6W 220K OHM J
R477	24998471	CHIP, 1/16W 470 OHM
R481	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R482	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R490	24552331	OXIDE METAL FILM, 1/2W 330 OHM J
R491	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
R492	24366101	CARBON FILM, 1/6W 100 OHM J
R501	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
R502	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
R504	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R505	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R506	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
R507	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
R508	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
R509	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J

Location No.	Parts No.	Description
R511	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R512	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R513	24366101	CARBON FILM, 1/6W 100 OHM J
R513	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R514	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R515	24366103	CARBON FILM, 1/6W 10K OHM J
R515	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R516	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R517	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R519	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R520	24366681	CARBON FILM, 1/6W 680 OHM J
R531	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R532	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
R533	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
R534	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
R535	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R536	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
R537	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
R538	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
R539	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R540	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
R541	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
R542	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
R552	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R554	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R555	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R561	24552181	OXIDE METAL FILM, 1/2W 180 OHM J
R569	24011823	CHIP, METAL FILM, 1/20W 82K OHM J
R571	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R572	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R573	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R574	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R575	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R576	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R577	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R578	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
R579	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R580	24011470	CHIP, METAL FILM, 1/20W 47 OHM J
R581	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R582	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R583	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R584	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
R585	24011470	CHIP, METAL FILM, 1/20W 47 OHM J
R586	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
R587	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R588	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R589	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
R590	24011470	CHIP, METAL FILM, 1/20W 47 OHM J
R591	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
R601	24011122	CHIP, METAL FILM, 1/20W 1.2K OHM J
R602	24011122	CHIP, METAL FILM, 1/20W 1.2K OHM J
R603	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R604	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R605	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
R606	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
R607	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R608	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R609	24366229	CARBON FILM, 1/6W 2.2 OHM J
R610	24366229	CARBON FILM, 1/6W 2.2 OHM J
R611	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R612	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R613	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R614	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R615	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R616	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R617	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R618	24011103	CHIP, METAL FILM, 1/20W 10K OHM J

Location No.	Parts No.	Description
R619	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
R620	24553821	OXIDE METAL FILM, 1W 820 OHM J
R621	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R622	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
R623	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R624	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R628	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R629	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R630	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
R631	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R632	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R633	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
R634	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
R635	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R636	24872822	CHIP, METAL FILM, 1/16W 8.2K OHM J
R637	24872822	CHIP, METAL FILM, 1/16W 8.2K OHM J
R641	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R642	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R643	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R644	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R645	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R646	24872822	CHIP, METAL FILM, 1/16W 8.2K OHM J
R647	24872822	CHIP, METAL FILM, 1/16W 8.2K OHM J
R648	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R660	24552681	OXIDE METAL FILM, 1/2W 680 OHM J
R688	24552391	OXIDE METAL FILM, 1/2W 390 OHM J
R690	24552391	OXIDE METAL FILM, 1/2W 390 OHM J
R702	24552221	OXIDE METAL FILM, 1/2W 220 OHM J
R709	24366563	CARBON FILM, 1/6W 56K OHM J
R713	24366273	CARBON FILM, 1/6W 27K OHM J
R715	24366333	CARBON FILM, 1/6W 33K OHM J
R716	24366273	CARBON FILM, 1/6W 27K OHM J
R717	24366333	CARBON FILM, 1/6W 33K OHM J
R718	24366101	CARBON FILM, 1/6W 100 OHM J
R719	24366100	CARBON FILM, 1/6W 10 OHM J
R720	24366102	CARBON FILM, 1/6W 1K OHM J
R722	24552471	OXIDE METAL FILM, 1/2W 470 OHM J
R723	24366101	CARBON FILM, 1/6W 100 OHM J
R724	24366151	CARBON FILM, 1/6W 150 OHM J
R725	24366152	CARBON FILM, 1/6W 1.5K OHM J
R730	24552100	OXIDE METAL FILM, 1/2W 10 OHM J
R731	24552331	OXIDE METAL FILM, 1/2W 330 OHM J
R732	24366470	CARBON FILM, 1/6W 47 OHM J
R733	24366683	CARBON FILM, 1/6W 68K OHM J
R734	24366470	CARBON FILM, 1/6W 47 OHM J
R735	24366683	CARBON FILM, 1/6W 68K OHM J
R736	24553330	OXIDE METAL FILM, 1W 33 OHM J
R737	24366751	CARBON FILM, 1/6W 750 OHM J
R738	24366102	CARBON FILM, 1/6W 1K OHM J
R739	24366751	CARBON FILM, 1/6W 750 OHM J
R740	24553330	OXIDE METAL FILM, 1W 33 OHM J
R741	24322229	OXIDE METAL FILM, 1W 2.2 OHM J
R742	24321229	OXIDE METAL FILM, 1/2W 2.2 OHM J
R743	24554221	OXIDE METAL FILM, 2W 220 OHM J
R744	24366122	CARBON FILM, 1/6W 1.2K OHM J
R745	24366122	CARBON FILM, 1/6W 1.2K OHM J
R761	24366273	CARBON FILM, 1/6W 27K OHM J
R762	24366563	CARBON FILM, 1/6W 56K OHM J
R763	24552331	OXIDE METAL FILM, 1/2W 330 OHM J
R764	24366470	CARBON FILM, 1/6W 47 OHM J
R765	24552100	OXIDE METAL FILM, 1/2W 10 OHM J
R766	24366470	CARBON FILM, 1/6W 47 OHM J
R767	24552221	OXIDE METAL FILM, 1/2W 220 OHM J
R768	24366751	CARBON FILM, 1/6W 750 OHM J
R769	24366122	CARBON FILM, 1/6W 1.2K OHM J
R770	24553330	OXIDE METAL FILM, 1W 33 OHM J
R771	24322229	OXIDE METAL FILM, 1W 2.2 OHM J

Location No.	Parts No.	Description
R772	24366683	CARBON FILM, 1/6W 68K OHM J
R773	24366683	CARBON FILM, 1/6W 68K OHM J
R774	24366751	CARBON FILM, 1/6W 750 OHM J
R775	24366122	CARBON FILM, 1/6W 1.2K OHM J
R776	24553330	OXIDE METAL FILM, 1W 33 OHM J
R777	24321229	OXIDE METAL FILM, 1/2W 2.2 OHM J
R778	24366102	CARBON FILM, 1/6W 1K OHM J
R779	24554221	OXIDE METAL FILM, 2W 220 OHM J
R781	24366273	CARBON FILM, 1/6W 27K OHM J
R782	24366563	CARBON FILM, 1/6W 56K OHM J
R783	24552221	OXIDE METAL FILM, 1/2W 220 OHM J
R784	24552100	OXIDE METAL FILM, 1/2W 10 OHM J
R785	24366470	CARBON FILM, 1/6W 47 OHM J
R786	24366751	CARBON FILM, 1/6W 750 OHM J
R787	24366122	CARBON FILM, 1/6W 1.2K OHM J
R788	24366683	CARBON FILM, 1/6W 68K OHM J
R789	24366683	CARBON FILM, 1/6W 68K OHM J
R790	24366751	CARBON FILM, 1/6W 750 OHM J
R791	24366122	CARBON FILM, 1/6W 1.2K OHM J
R792	24366102	CARBON FILM, 1/6W 1K OHM J
R793	24321229	OXIDE METAL FILM, 1/2W 2.2 OHM J
R794	24553330	OXIDE METAL FILM, 1W 33 OHM J
R795	24322229	OXIDE METAL FILM, 1W 2.2 OHM J
R796	24554221	OXIDE METAL FILM, 2W 220 OHM J
R797	24366470	CARBON FILM, 1/6W 47 OHM J
R798	24552331	OXIDE METAL FILM, 1/2W 330 OHM J
R799	24553330	OXIDE METAL FILM, 1W 33 OHM J
R901	24366101	CARBON FILM, 1/6W 100 OHM J
R903	24942102	CARBON COMPOSITION, 1/2W 1K OHM J
R905	24366470	CARBON FILM, 1/6W 47 OHM J
R906	24366331	CARBON FILM, 1/6W 330 OHM J
R908	24366470	CARBON FILM, 1/6W 47 OHM J
R909	24366390	CARBON FILM, 1/6W 39 OHM J
R911	24366101	CARBON FILM, 1/6W 100 OHM J
R913	24942102	CARBON COMPOSITION, 1/2W 1K OHM J
R915	24366330	CARBON FILM, 1/6W 33 OHM J
R916	24366331	CARBON FILM, 1/6W 330 OHM J
R918	24366470	CARBON FILM, 1/6W 47 OHM J
R919	24366390	CARBON FILM, 1/6W 39 OHM J
R920	24366153	CARBON FILM, 1/6W 15K OHM J
R921	24366101	CARBON FILM, 1/6W 100 OHM J
R923	24942102	CARBON COMPOSITION, 1/2W 1K OHM J
R925	24366470	CARBON FILM, 1/6W 47 OHM J
R926	24366331	CARBON FILM, 1/6W 330 OHM J
R928	24366470	CARBON FILM, 1/6W 47 OHM J
R929	24366390	CARBON FILM, 1/6W 39 OHM J
R930	24366153	CARBON FILM, 1/6W 15K OHM J
R931	24383153	OXIDE METAL FILM, 2W 15K OHM J
R932	24383153	OXIDE METAL FILM, 2W 15K OHM J
R933	24000907	FUSIBLE, 1W 3.9 OHM J
R936	24383153	OXIDE METAL FILM, 2W 15K OHM J
R937	24383153	OXIDE METAL FILM, 2W 15K OHM J
R938	24366150	CARBON FILM, 1/6W 15 OHM J
R941	24383153	OXIDE METAL FILM, 2W 15K OHM J
R942	24383153	OXIDE METAL FILM, 2W 15K OHM J
R943	24383153	OXIDE METAL FILM, 2W 15K OHM J
R944	24383153	OXIDE METAL FILM, 2W 15K OHM J
R945	24366150	CARBON FILM, 1/6W 15 OHM J
R948	24366153	CARBON FILM, 1/6W 15K OHM J
R949	24366153	CARBON FILM, 1/6W 15K OHM J
R951	24383153	OXIDE METAL FILM, 2W 15K OHM J
R952	24383153	OXIDE METAL FILM, 2W 15K OHM J
R953	24383153	OXIDE METAL FILM, 2W 15K OHM J
R954	24383153	OXIDE METAL FILM, 2W 15K OHM J
R959	24366150	CARBON FILM, 1/6W 15 OHM J
R961	24366152	CARBON FILM, 1/6W 1.5K OHM J
R962	24366471	CARBON FILM, 1/6W 470 OHM J

Location No.	Parts No.	Description
R964	24366332	CARBON FILM, 1/6W 3.3K OHM J
R965	24366471	CARBON FILM, 1/6W 470 OHM J
R966	24366331	CARBON FILM, 1/6W 330 OHM J
R967	24366681	CARBON FILM, 1/6W 680 OHM J
R987	24366470	CARBON FILM, 1/6W 47 OHM J
R991	24366153	CARBON FILM, 1/6W 15K OHM J
R992	24366153	CARBON FILM, 1/6W 15K OHM J
R2020	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R2022	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R2060	24366221	CARBON FILM, 1/6W 220 OHM J
R2105	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R2106	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R2107	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R2149	24871681	CHIP, METAL FILM, 1/8W 680 OHM J
R2150	24871681	CHIP, METAL FILM, 1/8W 680 OHM J
R2151	24871681	CHIP, METAL FILM, 1/8W 680 OHM J
R2155	24871102	CHIP, METAL FILM, 1/8W 1K OHM J
R2156	24871102	CHIP, METAL FILM, 1/8W 1K OHM J
R2157	24871102	CHIP, METAL FILM, 1/8W 1K OHM J
R2158	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R2159	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R4151	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R4152	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R4153	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R4401	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R4402	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R4403	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
R4404	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R4405	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4406	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4407	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
R4408	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R4409	24871152	CHIP, METAL FILM, 1/8W 1.5K OHM J
R4411	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R4412	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R4430	24381150	OXIDE METAL FILM, 1/2W 15 OHM J
R4431	24366102	CARBON FILM, 1/6W 1K OHM J
R4444	24383102	OXIDE METAL FILM, 2W 1K OHM J
R4451	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R4452	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R4454	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R4455	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
R4466	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R4467	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R4831	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R5020	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R5030	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R7701	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R7707	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7708	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7710	24384121	OXIDE METAL FILM, 3W 120 OHM J
R7711	24339189	METAL FILM, 2W 1R8 J
R7712	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7713	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7715	24384121	OXIDE METAL FILM, 3W 120 OHM J
R7716	24339189	METAL FILM, 2W 1R8 J
R7717	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7718	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7720	24384121	OXIDE METAL FILM, 3W 120 OHM J
R7721	24339189	METAL FILM, 2W 1R8 J
R7722	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7723	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7725	24384121	OXIDE METAL FILM, 3W 120 OHM J
R7726	24339189	METAL FILM, 2W 1R8 J
R7727	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7728	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7730	24384121	OXIDE METAL FILM, 3W 120 OHM J

Location No.	Parts No.	Description
R7731	24339189	METAL FILM, 2W 1R8 J
R7732	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7733	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7735	24384121	OXIDE METAL FILM, 3W 120 OHM J
R7736	24339189	METAL FILM, 2W 1R8 J
R7740	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7741	24011683	CHIP, METAL FILM, 1/20W 68K OHM J
R7742	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R7766	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7767	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R7775	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R7776	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7777	24011474	CHIP, METAL FILM, 1/20W 470K OHM J
R7778	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7779	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7786	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R7788	24366221	CARBON FILM, 1/6W 220 OHM J
R7790	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7799	24011684	CHIP, METAL FILM, 1/20W 680K OHM J
R7836	24366472	CARBON FILM, 1/6W 4.7K OHM J
R7837	24366101	CARBON FILM, 1/6W 100 OHM J
R7841	24366101	CARBON FILM, 1/6W 100 OHM J
R7842	24366472	CARBON FILM, 1/6W 4.7K OHM J
R7843	24366471	CARBON FILM, 1/6W 470 OHM J
R7844	24366472	CARBON FILM, 1/6W 4.7K OHM J
R7845	24366471	CARBON FILM, 1/6W 470 OHM J
R7846	24366103	CARBON FILM, 1/6W 10K OHM J
R7847	24366103	CARBON FILM, 1/6W 10K OHM J
R7848	24366222	CARBON FILM, 1/6W 2.2K OHM J
R7861	24366472	CARBON FILM, 1/6W 4.7K OHM J
R7862	24366222	CARBON FILM, 1/6W 2.2K OHM J
R7864	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R7868	24011752	CHIP, METAL FILM, 1/20W 7.5K OHM J
R7872	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7880	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
R7881	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7882	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7883	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7890	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R7891	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R7904	24000635	METAL FILM, 1/4W 12K OHM F
R7905	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7906	24011752	CHIP, METAL FILM, 1/20W 7.5K OHM J
R7907	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R7908	24366222	CARBON FILM, 1/6W 2.2K OHM J
R7909	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R7910	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
R7911	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
R7912	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R7913	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R7914	24381182	OXIDE METAL FILM, 1/2W 1.8K OHM J
R7921	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R7922	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R7923	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R7940	24383102	OXIDE METAL FILM, 2W 1K OHM J
R7941	24382181	OXIDE METAL FILM, 1W 180 OHM J
R9501	24366470	CARBON FILM, 1/6W 47 OHM J
R9503	24366681	CARBON FILM, 1/6W 680 OHM J
R9607	24366470	CARBON FILM, 1/6W 47 OHM J
R9608	24366681	CARBON FILM, 1/6W 680 OHM J
RA02	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA03	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA04	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA05	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA06	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA07	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA08	24011101	CHIP, METAL FILM, 1/20W 100 OHM J

Location No.	Parts No.	Description
RA09	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA10	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA11	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA12	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA13	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA14	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA15	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RA19	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA20	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA21	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA22	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA24	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA26	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA27	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA29	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA30	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA31	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA32	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA33	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA35	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA36	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA37	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA41	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA42	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA43	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RA44	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RA45	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA50	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA53	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA60	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA61	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA63	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA64	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA69	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA70	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA71	24366683	CARBON FILM, 1/6W 68K OHM J
RA72	24366223	CARBON FILM, 1/6W 22K OHM J
RA73	24366103	CARBON FILM, 1/6W 10K OHM J
RA73	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RA74	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA75	24366103	CARBON FILM, 1/6W 10K OHM J
RA75	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA76	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RA77	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA78	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
RA79	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
RA80	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
RA82	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA83	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA84	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA85	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA86	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA87	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA88	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RA89	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
RA90	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA91	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RA92	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA93	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA94	24011470	CHIP, METAL FILM, 1/20W 47 OHM J
RA95	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA96	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA97	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RA98	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA99	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA100	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RA101	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J

Location No.	Parts No.	Description
RA103	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RB01	24366271	CARBON FILM, 1/6W 270 OHM J
RB02	24366471	CARBON FILM, 1/6W 470 OHM J
RB04	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RB05	24011105	CHIP, METAL FILM, 1/20W 1M OHM J
RB06	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RB07	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RB08	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RB09	24366470	CARBON FILM, 1/6W 47 OHM J
RB09	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB10	24366101	CARBON FILM, 1/6W 100 OHM J
RB10	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RB11	24366103	CARBON FILM, 1/6W 10K OHM J
RB11	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RB12	24366471	CARBON FILM, 1/6W 470 OHM J
RB32	24011105	CHIP, METAL FILM, 1/20W 1M OHM J
RB33	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RB34	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RB35	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RB46	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB49	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RB81	24011122	CHIP, METAL FILM, 1/20W 1.2K OHM J
RB82	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RB83	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RB90	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RB91	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RB92	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RB93	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RB94	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RB95	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RB96	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
RB97	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
RB98	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RC01	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC02	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC03	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC04	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC05	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC06	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC07	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC08	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC09	24000445	CHIP JUMPER, 1608TYPE
RC10	24000445	CHIP JUMPER, 1608TYPE
RC60	24366681	CARBON FILM, 1/6W 680 OHM J
RC61	24366681	CARBON FILM, 1/6W 680 OHM J
RE81	24000141	METAL FILM, 1/4W 220 OHM F
RE82	24000360	METAL FILM, 1/4W 1.2K OHM F
RF01	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RF02	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RF03	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RF04	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RF05	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RF06	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RF07	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RF08	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RF09	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RF10	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RF11	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RF12	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RF13	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RF14	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RF15	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RF16	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RF17	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RF18	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RF19	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RF20	24011473	CHIP, METAL FILM, 1/20W 47K OHM J

Location No.	Parts No.	Description
RF21	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RF22	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RF23	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RF24	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RF25	24000445	CHIP JUMPER, 1608TYPE
RF26	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RF27	24105121	CERAMIC CHIP, 50V CH 120PF J
RF28	24019398	CHIP BLOCK, 1/16W P-8 33 OHM J
RF29	24019398	CHIP BLOCK, 1/16W P-8 33 OHM J
RF30	24019398	CHIP BLOCK, 1/16W P-8 33 OHM J
RF31	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RF32	24019398	CHIP BLOCK, 1/16W P-8 33 OHM J
RF33	24019398	CHIP BLOCK, 1/16W P-8 33 OHM J
RF34	24019398	CHIP BLOCK, 1/16W P-8 33 OHM J
RF35	24019398	CHIP BLOCK, 1/16W P-8 33 OHM J
RF36	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RF37	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF38	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF39	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF40	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RF42	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
RF43	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
RF44	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
RF45	24000445	CHIP JUMPER, 1608TYPE
RF46	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
RF48	24000445	CHIP JUMPER, 1608TYPE
RF51	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RF57	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RF58	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RF63	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
RF64	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
RF65	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
RF66	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RF68	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RF69	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RF70	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RF71	24000445	CHIP JUMPER, 1608TYPE
RF78	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RF79	24019398	CHIP BLOCK, 1/16W P-8 33 OHM J
RF80	24019398	CHIP BLOCK, 1/16W P-8 33 OHM J
RF81	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RF82	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RF84	24000445	CHIP JUMPER, 1608TYPE
RF93	24000445	CHIP JUMPER, 1608TYPE
RF94	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RF95	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RF97	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF98	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF99	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF100	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF101	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF102	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF103	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF104	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF105	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF106	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF107	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF108	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF109	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF110	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF111	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF112	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RF147	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RF148	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RG03	24007493	G 2W 207K 151C
RG04	24376154	CARBON FILM, 1/2W 150K OHM J
RG05	24310829	OXIDE METAL FILM, 1/2W 8.2 OHM J

Location No.	Parts No.	Description
RG11	24366471	CARBON FILM, 1/6W 470 OHM J
RG12	24310279	METAL FILM, 1/2W 2.7 OHM J
RG17	24366103	CARBON FILM, 1/6W 10K OHM J
RG18	24366472	CARBON FILM, 1/6W 4.7K OHM J
RG19	24366103	CARBON FILM, 1/6W 10K OHM J
RG20	24366331	CARBON FILM, 1/6W 330 OHM J
RG21	24310829	OXIDE METAL FILM, 1/2W 8.2 OHM J
RG22	24323229	OXIDE METAL FILM, 2W 2.2 OHM J
RG23	24321228	OXIDE METAL FILM, 1/2W 0.22 OHM J
RG26	24366229	CARBON FILM, 1/6W 2.2 OHM J
RG75	24381182	OXIDE METAL FILM, 1/2W 1.8K OHM J
RR01	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RR02	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RR03	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RR04	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RR05	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR06	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RR07	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RR08	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RR09	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR10	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR11	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RR12	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR13	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR14	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RR15	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR16	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR17	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS01	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS02	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS03	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS04	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS05	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS06	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS07	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS08	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS09	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS10	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS11	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS12	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS13	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RS14	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RS15	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS16	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS17	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS18	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS19	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS20	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS21	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS22	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS23	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS24	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS25	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS26	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS27	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS28	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS29	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RS30	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RS31	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS32	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS33	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS34	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS37	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS38	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS49	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RS50	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RS51	24011104	CHIP, METAL FILM, 1/20W 100K OHM J

Location No.	Parts No.	Description
RS52	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS53	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS54	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS55	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS56	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS58	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS59	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS61	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS63	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS65	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RS66	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS67	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS68	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS69	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS70	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS71	24011393	CHIP, METAL FILM, 1/20W 39K OHM J
RS72	24011393	CHIP, METAL FILM, 1/20W 39K OHM J
RS73	24011563	CHIP, METAL FILM, 1/20W 56K OHM J
RS74	24011563	CHIP, METAL FILM, 1/20W 56K OHM J
RS75	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS76	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS77	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RV04	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV05	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV07	24367103	CARBON FILM, 1/6W 10K OHM G
RV08	24367103	CARBON FILM, 1/6W 10K OHM G
RV09	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV10	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV16	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RV17	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV18	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV19	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RV20	24367103	CARBON FILM, 1/6W 10K OHM G
RV21	24367392	CARBON FILM, 1/6W 3.9K OHM G
RV23	24552101	OXIDE METAL FILM, 1/2W 100 OHM J
RV25	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV26	24872471	CHIP, METAL FILM, 1/16W 470 OHM J
RV27	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV28	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV29	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RV30	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV31	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV32	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV33	24367392	CARBON FILM, 1/6W 3.9K OHM G
RV34	24367392	CARBON FILM, 1/6W 3.9K OHM G
RV35	24872151	CHIP, METAL FILM, 1/16W 150 OHM J
RV36	24872151	CHIP, METAL FILM, 1/16W 150 OHM J
RV37	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV38	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV39	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV41	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV42	24011391	CHIP, METAL FILM, 1/20W 390 OHM J
RV43	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV44	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV45	24366683	CARBON FILM, 1/6W 68K OHM J
RV46	24366750	CARBON FILM, 1/6W 75 OHM J
RV47	24366750	CARBON FILM, 1/6W 75 OHM J
RV48	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV51	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV52	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV53	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV60	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV61	24552101	OXIDE METAL FILM, 1/2W 100 OHM J
RV62	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV63	24872471	CHIP, METAL FILM, 1/16W 470 OHM J
RV64	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV65	24552101	OXIDE METAL FILM, 1/2W 100 OHM J

Location No.	Parts No.	Description
RV66	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV67	24872471	CHIP, METAL FILM, 1/16W 470 OHM J
RV68	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV81	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV85	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV86	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV87	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV88	24872151	CHIP, METAL FILM, 1/16W 150 OHM J
RV89	24872151	CHIP, METAL FILM, 1/16W 150 OHM J
RV94	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV95	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV96	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV281	24367102	CARBON FILM, 1/6W 1K OHM G
RV331	24367102	CARBON FILM, 1/6W 1K OHM G
RV341	24367102	CARBON FILM, 1/6W 1K OHM G
RZ02	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RZ03	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RZ04	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RZ06	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RZ08	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RZ09	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RZ11	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RZ17	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RZ18	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RZ19	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RZ20	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RZ21	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RZ22	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RZ26	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RZ28	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
RZ29	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
COILS & TRANSFORMERS		
L101	23248296	COIL, CHOKE, TLN3278GH
L102	23103828	INDUCTOR, BEAD, TEM2121M
L103	23103828	INDUCTOR, BEAD, TEM2121M
L302	23248073	COIL, CHOKE, TLN3299D
L303	23248073	COIL, CHOKE, TLN3299D
L304	23103894	FILTER, FERRITE BEAD, TEM2011AW
L310	23289846	COIL, PEAKING, TRF4101AT
L401	23289560	COIL, PEAKING, TRF4560AF
L402	23248345	COIL, CHOKE EI24 120MMH, TLN3534AH
L403	23103894	FILTER, FERRITE BEAD, TEM2011AW
L406	23248191	COIL, CHOKE, TLN3351AD
L407	23103248	FERRITR CHOKE, TEM2014AA
L408	23103248	FERRITR CHOKE, TEM2014AA
L441	23233056	COIL, LINEARITY, TLN2222AG
L462	23231372	DEFLECTION YOKE, TDY707QD
L463	23231372	DEFLECTION YOKE, TDY707QD
L464	23231372	DEFLECTION YOKE, TDY707QD
L472	23102441	MAGNET, CONVERGENCE, MAG1094
L473	23102499	MAGNET, CPM29.1VM, MAG-1119
L474	23102441	MAGNET, CONVERGENCE, MAG1094
L501	23289470	COIL, PEAKING, TRF4470AF
L503	23289470	COIL, PEAKING, TRF4470AF
L504	23238714	COIL, PEAKING, TRF4100AJ
L505	23289840	COIL, PEAKING, TRF4100AT
L510	23103852	COIL, FILTER, TEM2028AH
L511	23103852	COIL, FILTER, TEM2028AH
L513	23103845	COIL, TEM2030AY
L514	23103845	COIL, TEM2030AY
L515	23103845	COIL, TEM2030AY
L516	23103845	COIL, TEM2030AY
L531	23103845	COIL, TEM2030AY
L535	23289840	COIL, PEAKING, TRF4100AT
L538	23289840	COIL, PEAKING, TRF4100AT
L539	23289840	COIL, PEAKING, TRF4100AT

Location No.	Parts No.	Description
L701	23289840	COIL, PEAKING, TRF4100AT
L702	23261974	COIL, FERRITE BEAD, HC5-035
L704	23103894	FILTER, FERRITE BEAD, TEM2011AW
L705	23103894	FILTER, FERRITE BEAD, TEM2011AW
L764	23103894	FILTER, FERRITE BEAD, TEM2011AW
L765	23103894	FILTER, FERRITE BEAD, TEM2011AW
L766	23261974	COIL, FERRITE BEAD, HC5-035
L769	23237975	COIL, PEAKING, TRF4101AC
L780	23237975	COIL, PEAKING, TRF4101AC
L781	23103894	FILTER, FERRITE BEAD, TEM2011AW
L782	23103894	FILTER, FERRITE BEAD, TEM2011AW
L783	23261974	COIL, FERRITE BEAD, HC5-035
L901	23237975	COIL, PEAKING, TRF4101AC
L902	23238714	COIL, PEAKING, TRF4100AJ
L903	23289845	COIL, PEAKING, TRF4680AT
L911	23289840	COIL, PEAKING, TRF4100AT
L912	23289845	COIL, PEAKING, TRF4680AT
L913	23238714	COIL, PEAKING, TRF4100AJ
L922	23289845	COIL, PEAKING, TRF4680AT
L923	23238714	COIL, PEAKING, TRF4100AJ
L961	23289840	COIL, PEAKING, TRF4100AT
L4401	23289101	COIL, PEAKING, TRF4101AF
L4441	23248326	COIL, CHOKE, TLN3530AH
L7701	23103894	FILTER, FERRITE BEAD, TEM2011AW
L7702	23103894	FILTER, FERRITE BEAD, TEM2011AW
L7703	23103894	FILTER, FERRITE BEAD, TEM2011AW
L7704	23103894	FILTER, FERRITE BEAD, TEM2011AW
L7705	23103894	FILTER, FERRITE BEAD, TEM2011AW
L7706	23103894	FILTER, FERRITE BEAD, TEM2011AW
L7708	23103145	FERRITE CHOKE, TEM2011AA
L7709	23103145	FERRITE CHOKE, TEM2011AA
L7710	23248320	COIL, CHOKE 15X23H 100MMH 2.5A, TLN3441AH
L7711	23248320	COIL, CHOKE 15X23H 100MMH 2.5A, TLN3441AH
L7712	23248031	COIL, CHOKE, TLN3274D
L7713	23248031	COIL, CHOKE, TLN3274D
LA01	23289840	COIL, PEAKING, TRF4100AT
LC01	23103828	INDUCTOR, BEAD, TEM2121M
LC02	23103828	INDUCTOR, BEAD, TEM2121M
LC03	23103828	INDUCTOR, BEAD, TEM2121M
LC04	23103828	INDUCTOR, BEAD, TEM2121M
LC05	23103828	INDUCTOR, BEAD, TEM2121M
LC06	23103828	INDUCTOR, BEAD, TEM2121M
LC07	23238562	COIL, PEAKING, TRF4109AJ
LC08	23238562	COIL, PEAKING, TRF4109AJ
LC09	23103828	INDUCTOR, BEAD, TEM2121M
LC10	23103828	INDUCTOR, BEAD, TEM2121M
LC11	23103852	COIL, FILTER, TEM2028AH
LC11	23103845	COIL, TEM2030AY
LC12	23238562	COIL, PEAKING, TRF4109AJ
LC12	23103845	COIL, TEM2030AY
LC13	23103828	INDUCTOR, BEAD, TEM2121M
LC15	23103828	INDUCTOR, BEAD, TEM2121M
LC16	23103828	INDUCTOR, BEAD, TEM2121M
LC17	23103828	INDUCTOR, BEAD, TEM2121M
LC18	23103828	INDUCTOR, BEAD, TEM2121M
LC21	23103828	INDUCTOR, BEAD, TEM2121M
LE81	23248288	COIL, CHOKE, TLN3299GH
LE82	23248257	COIL, CHOKE, TLN3503AH
LE83	23103941	COIL, CHOKE, TEM2011
LE84	23280019	COIL, PEAKING, TRF4330AZ
LF01	23103827	INDUCTOR, BEAD, TEM2120M
LF02	23103827	INDUCTOR, BEAD, TEM2120M
LF03	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
LF04	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
LF07	23103828	INDUCTOR, BEAD, TEM2121M

Location No.	Parts No.	Description
LF08	23103828	INDUCTOR, BEAD, TEM2121M
LF10	23289100	COIL, PEAKING, TRF4100AF
LF11	23103827	INDUCTOR, BEAD, TEM2120M
LF20	23103827	INDUCTOR, BEAD, TEM2120M
LF21	23103827	INDUCTOR, BEAD, TEM2120M
LF31	23103828	INDUCTOR, BEAD, TEM2121M
LF32	23103828	INDUCTOR, BEAD, TEM2121M
LF42	23103828	INDUCTOR, BEAD, TEM2121M
LF43	23103828	INDUCTOR, BEAD, TEM2121M
LF45	23103828	INDUCTOR, BEAD, TEM2121M
LF46	23103828	INDUCTOR, BEAD, TEM2121M
LF47	23103828	INDUCTOR, BEAD, TEM2121M
LF48	23103828	INDUCTOR, BEAD, TEM2121M
LF49	23103828	INDUCTOR, BEAD, TEM2121M
LF57	23103828	INDUCTOR, BEAD, TEM2121M
LF60	23103828	INDUCTOR, BEAD, TEM2121M
LF62	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
LF63	23103828	INDUCTOR, BEAD, TEM2121M
LG03	23103880	COIL, CHOKE, TEM2011Y
LG08	23103880	COIL, CHOKE, TEM2011Y
LG09	23103880	COIL, CHOKE, TEM2011Y
LG10	23103880	COIL, CHOKE, TEM2011Y
LG11	23103880	COIL, CHOKE, TEM2011Y
LG24	23280016	COIL, PEAKING, TRF4100AZ
LG25	23289840	COIL, PEAKING, TRF4100AT
LR01	23289840	COIL, PEAKING, TRF4100AT
LV09	23289840	COIL, PEAKING, TRF4100AT
LV10	23289840	COIL, PEAKING, TRF4100AT
LV42	23289840	COIL, PEAKING, TRF4100AT
LV43	23289840	COIL, PEAKING, TRF4100AT
LV46	23103852	COIL, FILTER, TEM2028AH
LZ01	23289840	COIL, PEAKING, TRF4100AT
LZ02	23289840	COIL, PEAKING, TRF4100AT
LZ03	23289840	COIL, PEAKING, TRF4100AT
LZ04	23103827	INDUCTOR, BEAD, TEM2120M
LZ05	23103852	COIL, FILTER, TEM2028AH
LZ07	23238708	COIL, PEAKING, TRF4330AJ
T400	23224386	TRANSFORMER, FOCUS, TLN2220AH
T401	23224371	TRANSFORMER, HORIZ DRIVE, TLN1080AH
T461A	23192961	ANODE CAP ASSY, TCC5605AU
TG01	23217466	TRANSFORMER, CONVERTER, TPW3449AM
TG02	23211661	COIL, LINE FILTER, TRF3192
SEMICONDUCTORS		
Q201	23314794	TRANSISTOR, 2PC1815Y
Q241	23114756	TRANSISTOR, 2SC2482
Q271	23114499	TRANSISTOR, RN1404
Q272	23114499	TRANSISTOR, RN1404
Q273	23114493	TRANSISTOR, RN2404
Q274	23314993	TRANSISTOR, 2SC4081 Q
Q291	23314994	TRANSISTOR, 2SA1576A106
Q301	23319787	IC, LA7833S
Q301B	23035308	SCREW, 3X8MM, TAPPING
Q302	23000711	IC, TA1317AN
Q305	23314994	TRANSISTOR, 2SA1576A106
Q306	70119059	IC, OP AMP, TA75902P(J)
Q370	23314993	TRANSISTOR, 2SC4081 Q
Q371	23314994	TRANSISTOR, 2SA1576A106
Q372	23205014	TRANSISTOR, 2SC4667-O
Q381	23205014	TRANSISTOR, 2SC4667-O
Q382	23205014	TRANSISTOR, 2SC4667-O
Q400	23205079	TRANSISTOR, 2SC4686A
Q402	23205166	TRANSISTOR, FET, 2SK2962
Q404	23205149	TRANSISTOR, 2SC5859(FA)
Q404B	23850638	INSULATOR, TRANSISTOR, AC263(NO SERVICE PART)
Q404D	72471082	SCREW, 3X10MM

Location No.	Parts No.	Description
Q405	23114425	TRANSISTOR, 2SA1015-Y(TE
Q406	23114433	TRANSISTOR, 2SC1815-Y
Q410	23114433	TRANSISTOR, 2SC1815-Y
Q411	23314993	TRANSISTOR, 2SC4081 Q
Q420	23114756	TRANSISTOR, 2SC2482
Q425	23205031	TRANSISTOR, FET, 2SK2920
Q428	23314993	TRANSISTOR, 2SC4081 Q
Q501	23009178	IC, TB1274AF(J,FP)
Q504	23314994	TRANSISTOR, 2SA1576A106
Q505	23314994	TRANSISTOR, 2SA1576A106
Q506	23314794	TRANSISTOR, 2PC1815Y
Q507	23114501	TRANSISTOR, RN1402
Q510	23009369	IC, TA1360AFG
Q530	23905590	IC, M52055FP
Q531	23314993	TRANSISTOR, 2SC4081 Q
Q532	23314994	TRANSISTOR, 2SA1576A106
Q533	23314993	TRANSISTOR, 2SC4081 Q
Q534	23314994	TRANSISTOR, 2SA1576A106
Q535	23314993	TRANSISTOR, 2SC4081 Q
Q536	23314994	TRANSISTOR, 2SA1576A106
Q537	23314994	TRANSISTOR, 2SA1576A106
Q538	23314994	TRANSISTOR, 2SA1576A106
Q539	23314994	TRANSISTOR, 2SA1576A106
Q540	23314993	TRANSISTOR, 2SC4081 Q
Q541	23314994	TRANSISTOR, 2SA1576A106
Q542	23314993	TRANSISTOR, 2SC4081 Q
Q543	23314994	TRANSISTOR, 2SA1576A106
Q545	23314993	TRANSISTOR, 2SC4081 Q
Q546	23314994	TRANSISTOR, 2SA1576A106
Q601	23009485	IC, TA8258H(GR)
Q601B	23035308	SCREW, 3X8MM, TAPPING
Q611	70114396	TRANSISTOR, 2SC3326B
Q612	70114396	TRANSISTOR, 2SC3326B
Q613	23314993	TRANSISTOR, 2SC4081 Q
Q614	23114499	TRANSISTOR, RN1404
Q615	23314994	TRANSISTOR, 2SA1576A106
Q616	23314994	TRANSISTOR, 2SA1576A106
Q617	23906596	IC, BA4558
Q618	23314993	TRANSISTOR, 2SC4081 Q
Q619	23314993	TRANSISTOR, 2SC4081 Q
Q624	70114396	TRANSISTOR, 2SC3326B
Q625	23114493	TRANSISTOR, RN2404
Q626	23314993	TRANSISTOR, 2SC4081 Q
Q627	23114493	TRANSISTOR, RN2404
Q706	23114433	TRANSISTOR, 2SC1815-Y
Q707	23114437	TRANSISTOR, 2SC752GTM-Y
Q709	23114433	TRANSISTOR, 2SC1815-Y
Q710	23114425	TRANSISTOR, 2SA1015-Y(TE
Q711	23205075	TRANSISTOR, 2SA1930
Q711B	23035308	SCREW, 3X8MM, TAPPING
Q712	23205076	TRANSISTOR, 2SC5171
Q712B	23035308	SCREW, 3X8MM, TAPPING
Q719	23114433	TRANSISTOR, 2SC1815-Y
Q720	23114433	TRANSISTOR, 2SC1815-Y
Q740	23314993	TRANSISTOR, 2SC4081 Q
Q751	23135040	IC, CONVERGENCE OUT, STK394-250
Q752	23135040	IC, CONVERGENCE OUT, STK394-250
Q760	23114425	TRANSISTOR, 2SA1015-Y(TE
Q761	23205075	TRANSISTOR, 2SA1930
Q761B	23035308	SCREW, 3X8MM, TAPPING
Q769	23114433	TRANSISTOR, 2SC1815-Y
Q771	23314994	TRANSISTOR, 2SA1576A106
Q771	23205076	TRANSISTOR, 2SC5171
Q771B	23035308	SCREW, 3X8MM, TAPPING
Q772	23319666	IC, TC74HC123AP(NEW)
Q776	23114433	TRANSISTOR, 2SC1815-Y
Q777	23114425	TRANSISTOR, 2SA1015-Y(TE

Location No.	Parts No.	Description
Q778	23114433	TRANSISTOR, 2SC1815-Y
Q779	23114433	TRANSISTOR, 2SC1815-Y
Q779	23114433	TRANSISTOR, 2SC1815-Y
Q780	23114425	TRANSISTOR, 2SA1015-Y(TE
Q781	23114433	TRANSISTOR, 2SC1815-Y
Q781	23114433	TRANSISTOR, 2SC1815-Y
Q782	23319894	IC, NJM79M05FA
Q782	23114425	TRANSISTOR, 2SA1015-Y(TE
Q783	23114433	TRANSISTOR, 2SC1815-Y
Q783	23205037	TRANSISTOR, 2SJ512
Q783B	23035308	SCREW, 3X8MM, TAPPING
Q784	23904268	IC, PQ05RR1
Q784	23205075	TRANSISTOR, 2SA1930
Q784B	23035308	SCREW, 3X8MM, TAPPING
Q784B	23035308	SCREW, 3X8MM, TAPPING
Q785	23205076	TRANSISTOR, 2SC5171
Q785B	23035308	SCREW, 3X8MM, TAPPING
Q788	23314993	TRANSISTOR, 2SC4081 Q
Q792	23319666	IC, TC74HC123AP(NEW)
Q793	23314917	TRANSISTOR, 2SK2003-01MR
Q796	23314993	TRANSISTOR, 2SC4081 Q
Q890	23009549	IC, REGULATOR +9V 3%, NJM2396F09D
Q890B	23035308	SCREW, 3X8MM, TAPPING
Q891	23009546	IC, REGULATOR +5V 3%, NJM2396F05D
Q891B	23035308	SCREW, 3X8MM, TAPPING
Q892	23009546	IC, REGULATOR +5V 3%, NJM2396F05D
Q892B	23035308	SCREW, 3X8MM, TAPPING
Q894	23009545	IC, REGULATOR +3.3V 3%, NJM2396F33D
Q894B	23035308	SCREW, 3X8MM, TAPPING
Q901	23314971	TRANSISTOR, 2SC5360(FA)
Q901B	23035308	SCREW, 3X8MM, TAPPING
Q902	23114433	TRANSISTOR, 2SC1815-Y
Q911	23314971	TRANSISTOR, 2SC5360(FA)
Q911B	23035308	SCREW, 3X8MM, TAPPING
Q912	23114433	TRANSISTOR, 2SC1815-Y
Q913	23114425	TRANSISTOR, 2SA1015-Y(TE
Q921	23314971	TRANSISTOR, 2SC5360(FA)
Q921B	23035308	SCREW, 3X8MM, TAPPING
Q922	23114433	TRANSISTOR, 2SC1815-Y
Q961	23114433	TRANSISTOR, 2SC1815-Y
Q962	23114425	TRANSISTOR, 2SA1015-Y(TE
Q973	23114425	TRANSISTOR, 2SA1015-Y(TE
Q2104	23314791	TRANSISTOR, 2PA1015Y
Q2105	23314791	TRANSISTOR, 2PA1015Y
Q2106	23314791	TRANSISTOR, 2PA1015Y
Q2107	23314994	TRANSISTOR, 2SA1576A106
Q2108	23314994	TRANSISTOR, 2SA1576A106
Q2109	23314994	TRANSISTOR, 2SA1576A106
Q4430	23114733	TRANSISTOR, 2SC2655-Y
Q4451	23205068	TRANSISTOR, 2SC5343S-Y
Q4452	23114458	TRANSISTOR, RN1206
Q4453	23114458	TRANSISTOR, RN1206
Q4454	23114458	TRANSISTOR, RN1206
Q4465	23314994	TRANSISTOR, 2SA1576A106
QA01	23009445	IC, 8BIT MCU 120K 64PIN, CXP750010-310S
QA02	23009330	IC, AT24C64-10PI-2.7
QA05	23906367	IC, PST9146NL
QA13	23205112	TRANSISTOR, 2SA1980UF-Y(
QA82	23000592	IC, 2IN-1OUTSW 6DBAMP CLP, MM1504XN
QA83	23114499	TRANSISTOR, RN1404
QA84	23205014	TRANSISTOR, 2SC4667-O
QA85	23314994	TRANSISTOR, 2SA1576A106
QB01	23314791	TRANSISTOR, 2PA1015Y
QB04	23314994	TRANSISTOR, 2SA1576A106
QB05	23314993	TRANSISTOR, 2SC4081 Q
QB06	23314994	TRANSISTOR, 2SA1576A106
QB42	23314994	TRANSISTOR, 2SA1576A106

Location No.	Parts No.	Description
QB43	23314993	TRANSISTOR, 2SC4081 Q
QB81	70114396	TRANSISTOR, 2SC3326B
QB82	70114396	TRANSISTOR, 2SC3326B
QB83	23314994	TRANSISTOR, 2SA1576A106
QB92	23314993	TRANSISTOR, 2SC4081 Q
QB93	23314994	TRANSISTOR, 2SA1576A106
QB94	23314994	TRANSISTOR, 2SA1576A106
QB95	23314994	TRANSISTOR, 2SA1576A106
QB96	23314994	TRANSISTOR, 2SA1576A106
QE81	23000806	IC, SI-8033SS
QE81B	23035308	SCREW, 3X8MM, TAPPING
QF01	23009431	IC, TELETEXT DECODER MICRO, SDA6001 B12
QF02	23906770	IC, BA033FP
QF03	23000904	IC, REGULATOR +2.5V TO252-3, BA25BC0FP
QF04	23009595	IC, SDRAM PC133, IC42S16400-7TT/R
QF05	23009114	IC, BD4746G
QF06	23314993	TRANSISTOR, 2SC4081 Q
QF07	70114402	TRANSISTOR, 2SC3437-Y
QF08	23314993	TRANSISTOR, 2SC4081 Q
QF09	23205014	TRANSISTOR, 2SC4667-O
QF10	23314558	TRANSISTOR, 2SA1610, Y34
QF11	23314558	TRANSISTOR, 2SA1610, Y34
QF12	23314558	TRANSISTOR, 2SA1610, Y34
QF13	23009275	IC, ROM 256KX16BIT FLASH ROM, MX29LV400BTC-70
QF14	23009500	IC, ROM 512KX16BIT FLASH WR2, X29LV800TMC-70-WR2
QF15	23314994	TRANSISTOR, 2SA1576A106
QF16	23314993	TRANSISTOR, 2SC4081 Q
QF21	23114501	TRANSISTOR, RN1402
QF24	23205099	TRANSISTOR, FET VDSS=60V, RK7002
QF25	23205099	TRANSISTOR, FET VDSS=60V, RK7002
QF27	23314993	TRANSISTOR, 2SC4081 Q
QG01	23135014	IC, HYBRID VDSS=650V, STR-G5551
QG01B	23035308	SCREW, 3X8MM, TAPPING
QG36	23314141	TRANSISTOR, 2SC3852
QG36B	23035308	SCREW, 3X8MM, TAPPING
QG37	23314791	TRANSISTOR, 2PA1015Y
QG38	23314794	TRANSISTOR, 2PC1815Y
QR02	23906666	IC, TA1287F(EL)
QR03	23314993	TRANSISTOR, 2SC4081 Q
QR04	23314993	TRANSISTOR, 2SC4081 Q
QR05	23314993	TRANSISTOR, 2SC4081 Q
QR06	23314993	TRANSISTOR, 2SC4081 Q
QR07	23114501	TRANSISTOR, RN1402
QS01	70114396	TRANSISTOR, 2SC3326B
QS02	70114396	TRANSISTOR, 2SC3326B
QS03	23314993	TRANSISTOR, 2SC4081 Q
QS04	23314993	TRANSISTOR, 2SC4081 Q
QS05	70114396	TRANSISTOR, 2SC3326B
QS06	70114396	TRANSISTOR, 2SC3326B
QS07	70114396	TRANSISTOR, 2SC3326B
QS08	70114396	TRANSISTOR, 2SC3326B
QS09	23114493	TRANSISTOR, RN2404
QS14	70114396	TRANSISTOR, 2SC3326B
QS15	70129558	IC, MM1231XF
QS16	23314993	TRANSISTOR, 2SC4081 Q
QV01	23906887	IC, CXA2069Q
QV02	23314993	TRANSISTOR, 2SC4081 Q
QV03	23314993	TRANSISTOR, 2SC4081 Q
QV04	23314993	TRANSISTOR, 2SC4081 Q
QV06	23314994	TRANSISTOR, 2SA1576A106
QV09	23314794	TRANSISTOR, 2PC1815Y
QV12	23314794	TRANSISTOR, 2PC1815Y
QV14	23314794	TRANSISTOR, 2PC1815Y
QV15	23314993	TRANSISTOR, 2SC4081 Q

Location No.	Parts No.	Description
QV16	70128711	IC, SW 2IN 1OUT 3CIRCUIT ALLCLP, BA7603F
QV17	23318981	IC, MC14053BF
QV21	23314994	TRANSISTOR, 2SA1576A106
QV22	23314993	TRANSISTOR, 2SC4081 Q
QZ01	23009303	IC, CMOS MULTI COMB SOP16, TDA9181T/N1,118
QZ03	23314994	TRANSISTOR, 2SA1576A106
QZ04	23314994	TRANSISTOR, 2SA1576A106
QZ05	23314994	TRANSISTOR, 2SA1576A106
QZ06	23314994	TRANSISTOR, 2SA1576A106
QZ09	23314993	TRANSISTOR, 2SC4081 Q
QZ10	23314994	TRANSISTOR, 2SA1576A106
QZ12	23314993	TRANSISTOR, 2SC4081 Q
D101	23316755	DIODE, ZENER, MTZJ33C
D216	23316688	DIODE, ZENER, MTZJ9.1C
D218	23316688	DIODE, ZENER, MTZJ9.1C
D220	23316688	DIODE, ZENER, MTZJ9.1C
D272	23118041	DIODE, MA111
D301	23357165	DIODE, ZENER, UDZS7.5B
D302	23357366	DIODE, FR105-B5
D304	23316794	DIODE, SC570A
D305	23118822	DIODE, ERB12-02
D306	23118822	DIODE, ERB12-02
D350	23357366	DIODE, FR105-B5
D370	23316231	DIODE, 1SS355
D378	23316231	DIODE, 1SS355
D401	23118056	DIODE, AG01
D402	23357366	DIODE, FR105-B5
D404	23316254	DIODE, ERC06-15
D406	23115910	DIODE, S5295G
D411	23316731	DIODE, ZENER, MTZJ18B
D412	23118707	DIODE, RP-1H
D413	23118707	DIODE, RP-1H
D414	23357366	DIODE, FR105-B5
D415	23357366	DIODE, FR105-B5
D420	23118859	DIODE, 1SS133
D421	23357366	DIODE, FR105-B5
D425	23357366	DIODE, FR105-B5
D426	23118499	DIODE, ZENER, RD18ESA B2
D4401	23316231	DIODE, 1SS355
D4402	23316231	DIODE, 1SS355
D4430	23115532	DIODE, ERB12-01
D4431	23316715	DIODE, ZENER, MTZJ11A
D4451	23115532	DIODE, ERB12-01
D4452	23357170	DIODE, ZENER, UDZS8.2B
D4453	23316231	DIODE, 1SS355
D461	23224366	DIODE, FMQ-3GU
D461B	23035308	SCREW, 3X8MM, TAPPING
D502	23118041	DIODE, MA111
D505	23115599	DIODE, 1N4148
D506	23316673	DIODE, ZENER, MTZJ5.6C
D511	23357037	DIODE, ZENER, UDZS5.6B
D514	23357037	DIODE, ZENER, UDZS5.6B
D515	23357037	DIODE, ZENER, UDZS5.6B
D520	23118641	DIODE, ZENER, RD2.0ESA B2
D544	23357172	DIODE, ZENER, UDZS10B
D545	23357172	DIODE, ZENER, UDZS10B
D601	23316231	DIODE, 1SS355
D602	23316231	DIODE, 1SS355
D603	23316231	DIODE, 1SS355
D604	23316231	DIODE, 1SS355
D605	23316231	DIODE, 1SS355
D606	23316231	DIODE, 1SS355
D607	23316231	DIODE, 1SS355
D608	23316231	DIODE, 1SS355
D609	23316231	DIODE, 1SS355

Location No.	Parts No.	Description
D610	23316231	DIODE, 1SS355
D611	23316231	DIODE, 1SS355
D612	23316231	DIODE, 1SS355
D614	23316231	DIODE, 1SS355
D628	23316739	DIODE, ZENER, MTZJ22C
D660	23316719	DIODE, ZENER, MTZJ12B
D704	23115599	DIODE, 1N4148
D705	23115599	DIODE, 1N4148
D715	23115599	DIODE, 1N4148
D721	23115599	DIODE, 1N4148
D761	23115599	DIODE, 1N4148
D762	23115599	DIODE, 1N4148
D763	23115599	DIODE, 1N4148
D764	23115599	DIODE, 1N4148
D7703	23115532	DIODE, ERB12-01
D7705	23316231	DIODE, 1SS355
D7706	23316231	DIODE, 1SS355
D7707	23316231	DIODE, 1SS355
D7708	23316231	DIODE, 1SS355
D7717	23316675	DIODE, ZENER, MTZJ6.2B
D7718	23316675	DIODE, ZENER, MTZJ6.2B
D7729	23316738	DIODE, ZENER, MTZJ22B
D7730	23316675	DIODE, ZENER, MTZJ6.2B
D7731	23316675	DIODE, ZENER, MTZJ6.2B
D7732	23115532	DIODE, ERB12-01
D7733	23316731	DIODE, ZENER, MTZJ18B
D7734	23316731	DIODE, ZENER, MTZJ18B
D7735	23115532	DIODE, ERB12-01
D7806	23316231	DIODE, 1SS355
D7808	23118094	DIODE, EU2A
D7809	23316231	DIODE, 1SS355
D781	23115599	DIODE, 1N4148
D7810	23118052	DIODE, RU4Z LF-L1
D7811	23316231	DIODE, 1SS355
D782	23115599	DIODE, 1N4148
D7820	23118056	DIODE, AG01
D783	23115599	DIODE, 1N4148
D784	23115599	DIODE, 1N4148
D890	23357365	DIODE, 1N4004A-B5
D891	23357365	DIODE, 1N4004A-B5
D892	23357365	DIODE, 1N4004A-B5
D894	23357365	DIODE, 1N4004A-B5
D896	23357365	DIODE, 1N4004A-B5
D901	23115599	DIODE, 1N4148
D902	23115599	DIODE, 1N4148
D911	23115599	DIODE, 1N4148
D912	23115599	DIODE, 1N4148
D921	23115599	DIODE, 1N4148
D922	23115599	DIODE, 1N4148
D931	23115599	DIODE, 1N4148
D932	23115599	DIODE, 1N4148
D933	23115599	DIODE, 1N4148
D934	23115599	DIODE, 1N4148
D936	23115337	DIODE, 1S1834
D941	23115599	DIODE, 1N4148
D942	23115599	DIODE, 1N4148
D943	23115599	DIODE, 1N4148
D945	23115337	DIODE, 1S1834
D946	23115599	DIODE, 1N4148
D963	23115599	DIODE, 1N4148
D964	23115599	DIODE, 1N4148
D965	23115599	DIODE, 1N4148
D966	23115599	DIODE, 1N4148
D967	23115337	DIODE, 1S1834
DA02	23316231	DIODE, 1SS355
DA03	23316231	DIODE, 1SS355
DA42	23316673	DIODE, ZENER, MTZJ5.6C

Location No.	Parts No.	Description
DA50	23316673	DIODE, ZENER, MTZJ5.6C
DB01	23358564	DIODE, LED, SLR-56VC3FPQ
DB02	23358563	DIODE, LED, SLR-56MC3FPQR
DE81	23118213	DIODE, RK44,
DG02	23316711	DIODE, S1WBA60
DG03	23357366	DIODE, FR105-B5
DG10	23357366	DIODE, FR105-B5
DG11	23316746	DIODE, ZENER, MTZJ27B
DG12	23316672	DIODE, ZENER, MTZJ5.6B
DG13	23316746	DIODE, ZENER, MTZJ27B
DG21	23118057	DIODE, AG01A
DG25	23118052	DIODE, RU4Z LF-L1
DG27	23316673	DIODE, ZENER, MTZJ5.6C
DR01	23316231	DIODE, 1SS355
DR02	23316231	DIODE, 1SS355
DR03	23316231	DIODE, 1SS355
DR04	23316231	DIODE, 1SS355
DR05	23316231	DIODE, 1SS355
DR12	23357172	DIODE, ZENER, UDZS10B
DR13	23357172	DIODE, ZENER, UDZS10B
DR14	23357172	DIODE, ZENER, UDZS10B
DR70	23357037	DIODE, ZENER, UDZS5.6B
DR71	23357037	DIODE, ZENER, UDZS5.6B
DS01	23357172	DIODE, ZENER, UDZS10B
DS02	23357172	DIODE, ZENER, UDZS10B
DS03	23357172	DIODE, ZENER, UDZS10B
DS04	23357172	DIODE, ZENER, UDZS10B
DS11	23118041	DIODE, MA111
DS13	23316231	DIODE, 1SS355
DS14	23316231	DIODE, 1SS355
DV02	23357172	DIODE, ZENER, UDZS10B
DV04	23357172	DIODE, ZENER, UDZS10B
DV05	23357172	DIODE, ZENER, UDZS10B
DV06	23357172	DIODE, ZENER, UDZS10B
DV07	23357172	DIODE, ZENER, UDZS10B
DV08	23357172	DIODE, ZENER, UDZS10B
DV09	23357172	DIODE, ZENER, UDZS10B
DV11	23357172	DIODE, ZENER, UDZS10B
DV12	23357172	DIODE, ZENER, UDZS10B
DV14	23357171	DIODE, ZENER VZ=8.85-9.23, UDZS TE-17 9.1B
DV15	23357172	DIODE, ZENER, UDZS10B
DV16	23357037	DIODE, ZENER, UDZS5.6B
DV17	23357037	DIODE, ZENER, UDZS5.6B
DV18	23357037	DIODE, ZENER, UDZS5.6B
DV19	23357037	DIODE, ZENER, UDZS5.6B
DV20	23357037	DIODE, ZENER, UDZS5.6B
DV21	23357037	DIODE, ZENER, UDZS5.6B
DV22	23357172	DIODE, ZENER, UDZS10B
MISCELLANEOUS		
B224	23035412	SCREW, BTB4X12 SZN
B230	23037312	SCREW, BTBW3X12SZN
B231	23845856	WIRE CLAMP, POF COAT) L=70MM
B232	23035412	SCREW, BTB4X12 SZN
B233	23035412	SCREW, BTB4X12 SZN
B234	23037312	SCREW, BTBW3X12SZN
B235	23037312	SCREW, BTBW3X12SZN
B236	23037312	SCREW, BTBW3X12SZN
B237	23037312	SCREW, BTBW3X12SZN
B238	23037312	SCREW, BTBW3X12SZN
B240	23035412	SCREW, BTB4X12 SZN
B241	23035412	SCREW, BTB4X12 SZN
BB21A	23713013	CONNECTOR, SOCKET, B-B 16P 1.5
BB21B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB22A	23713013	CONNECTOR, SOCKET, B-B 16P 1.5
BB22B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5

Location No.	Parts No.	Description
BB23A	23713013	CONNECTOR, SOCKET, B-B 16P 1.5
BB23B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB24A	23903022	CONNECTOR, BASE B-B 8P 2.5 JST
BB24B	23903022	CONNECTOR, BASE B-B 8P 2.5 JST
BB24C	23368627	CONNECTOR, BRIDGE B-B 8P 2.5JST 08TM-2.5FJ-E
BB80B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB82B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB83A	23903022	CONNECTOR, BASE B-B 8P 2.5 JST
BB83B	23903022	CONNECTOR, BASE B-B 8P 2.5 JST
BB83C	23368627	CONNECTOR, BRIDGE B-B 8P 2.5JST 08TM-2.5FJ-E
BB85B	23903022	CONNECTOR, BASE B-B 8P 2.5 JST
BB85C	23368627	CONNECTOR, BRIDGE B-B 8P 2.5JST 08TM-2.5FJ-E
E921	23964147	COOLANT, COOLANT
E929	23969684	TAPE, GLASS-CLOTH, W/ADHESIVE W=90 T=0.18
E951	23964147	COOLANT, COOLANT
E959	23969684	TAPE, GLASS-CLOTH, W/ADHESIVE W=90 T=0.18
E981	23964147	COOLANT, COOLANT
E989	23969684	TAPE, GLASS-CLOTH, W/ADHESIVE W=90 T=0.18
GA01	23103828	INDUCTOR, BEAD, TEM2121M
GA02	23103828	INDUCTOR, BEAD, TEM2121M
GA06	23103828	INDUCTOR, BEAD, TEM2121M
GA07	23103828	INDUCTOR, BEAD, TEM2121M
GA08	23103828	INDUCTOR, BEAD, TEM2121M
GA10	23103828	INDUCTOR, BEAD, TEM2121M
GA21	23103828	INDUCTOR, BEAD, TEM2121M
GA22	23103828	INDUCTOR, BEAD, TEM2121M
GC01	24000445	CHIP JUMPER, 1608TYPE
GC02	24000445	CHIP JUMPER, 1608TYPE
GC03	24000445	CHIP JUMPER, 1608TYPE
GC04	24000445	CHIP JUMPER, 1608TYPE
GC20	24000445	CHIP JUMPER, 1608TYPE
GJ07	24000445	CHIP JUMPER, 1608TYPE
GJ12	24000445	CHIP JUMPER, 1608TYPE
GJ44	24000445	CHIP JUMPER, 1608TYPE
GJ46	24000445	CHIP JUMPER, 1608TYPE
GJ47	24000445	CHIP JUMPER, 1608TYPE
GJ48	24000445	CHIP JUMPER, 1608TYPE
GJ49	24000445	CHIP JUMPER, 1608TYPE
GJ50	24000445	CHIP JUMPER, 1608TYPE
GJ105	24000445	CHIP JUMPER, 1608TYPE
GJ601	24000445	CHIP JUMPER, 1608TYPE
GJ603	24000445	CHIP JUMPER, 1608TYPE
GJ604	24000445	CHIP JUMPER, 1608TYPE
GJ701	24000445	CHIP JUMPER, 1608TYPE
GJ702	24000445	CHIP JUMPER, 1608TYPE
GJ703	24000445	CHIP JUMPER, 1608TYPE
GJ710	24000445	CHIP JUMPER, 1608TYPE
GL01	23103859	FILTER, FERRITE CHOKE, TEM2011
GL02	23103859	FILTER, FERRITE CHOKE, TEM2011
GR05	24000445	CHIP JUMPER, 1608TYPE
GR07	24000445	CHIP JUMPER, 1608TYPE
GV03	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
GV04	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
GV06	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
GV08	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
GV09	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
GV35	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
GV42	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
H002	23148745	MODULE, NICAM/IGR A-PRO, MPSN11C
KB01	23000852	IC, REMOTE PHOTO RECEIVER, PIC-37043TE2

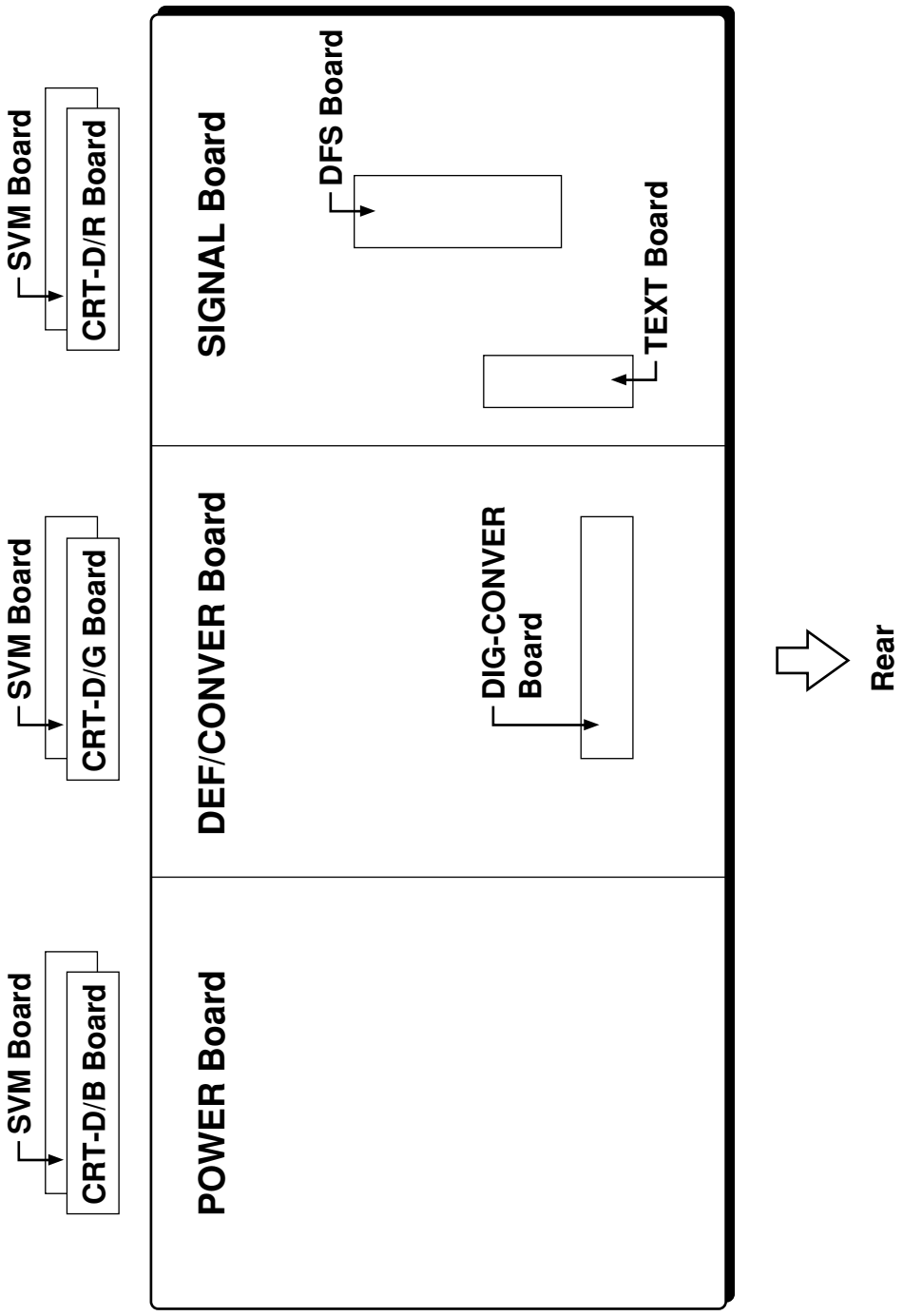
Location No.	Parts No.	Description
P661	23365444	CONNECTOR, EARPONE JACK, D3.5 HOSIDEN
P708	23902655	CONNECTOR, B-B 15P
P709	23902655	CONNECTOR, B-B 15P
⚠ P801	23372052	POWER CORD, 250V2.5A
⚠ P801	23372151	POWER CORD, AC250V3A L/FUSE13A GB13F1 FUSE13A
PB12B	23368584	CONNECTOR, PLUG, 3P2.5MM W EH-JST S3B-EH
PF01	23903176	SOCKET, SOCKET 60P TKD 136901160W4
PH01	23165461	TERMINAL, DOUBLE ISA07-SA
PH02	23165460	TERMINAL, SINGLE ISA01-A
PX01	23903176	SOCKET, SOCKET 60P TKD 136901160W4
⚠ S801	23344482	SWITCH, ESB92S NAE ESB92S28B
SA01	23145430	SWITCH, PUSH, SKHHLMA010 (42WH36P)
SA01	23145226	SWITCH, 1C1P, PUSH (51WH36P)
SA02	23145430	SWITCH, PUSH, SKHHLMA010 (42WH36P)
SA02	23145226	SWITCH, 1C1P, PUSH (51WH36P)
SA03	23145430	SWITCH, PUSH, SKHHLMA010 (42WH36P)
SA03	23145226	SWITCH, 1C1P, PUSH (51WH36P)
SA04	23145430	SWITCH, PUSH, SKHHLMA010 (42WH36P)
SA04	23145226	SWITCH, 1C1P, PUSH (51WH36P)
SA06	23145430	SWITCH, PUSH, SKHHLMA010 (42WH36P)
SA06	23145226	SWITCH, 1C1P, PUSH (51WH36P)
⚠ V901A	23903148	SOCKET, ISH-44S-E ICE #5
⚠ V902A	23903148	SOCKET, ISH-44S-E ICE #5
⚠ V903A	23903148	SOCKET, ISH-44S-E ICE #5
W661	23351183	SPEAKER, SPK1424AM, 160X160 8-OHM 20W
W662	23351183	SPEAKER, SPK1424AM, 160X160 8-OHM 20W
X501	23153438	CRYSTAL, 16.200 25PPM 25OHM
X4402	23153721	CERAMIC RESONATOR, 503KHZ
XA03	23153394	CRYSTAL, 16.000000MHZ AT-51
XF01	23153552	CRYSTAL, RESONATOR, 6MHZ 50PPM
Z401	23140203	SPARK GAP, 2.0-3.0KV C-010, AG20PC152F-L3N
⚠ Z410	23110841	FOCUS PACK, TPA6030
Z410A	23505177	CABLE, FOCUS
⚠ Z450	24083014	COMPOSITE PARTS, CR-BLOCK, TPA5011AH
Z450A	23501755	ANODE CABLE, 400LD FBT-C
Z800	23103839	FERRITE CORE, TFE1012
Z800	23103839	FERRITE CORE, TFE1012
Z802	23103839	FERRITE CORE, TFE1012
Z803	23103839	FERRITE CORE, TFE1012
ZC01Z	23148062	MODULE, D-CONVER, MDCE11-S42W
ZG01	23144450	PROTECTOR, PRF2000, 125V, 2.0A
ZY01	23148026	MODULE, SCAN CONVERTER, MDFS11
PC BOARD ASSEMBLIES		
✻ U104	23788450	TEXT BOARD, PD1100A
✻ U901A	23788452	CRT-R BOARD, PD1102A1
✻ U901B	23788453	CRT-G BOARD, PD1102A2
✻ U901C	23788454	CRT-B BOARD, PD1102A3
✻ U901D	23788455	SVM-G BOARD, PD1102A4
✻ U901E	23788456	SVM-R BOARD, PD1102A5
✻ U901F	23788457	SVM-B BOARD, PD1102A6
✻ U902	23788447	SIGNAL BOARD, PD1098A (42WH36P)
✻ U902	23788752	SIGNAL BOARD, PD1098C (51WH36P)
✻ U904	23788448	DEFCONV BOARD, PD1099A
✻ U905	23788451	EPGPOWER BOARD, PD1101
✻ U906A	23788458	FRONT IN BOARD, PD1103A1 (42WH36P)
✻ U906A	23788749	FRONT-CON BOARD, PD1261A1 (51WH36P)
✻ U906B	23788459	RMT IN BOARD, PD1103A2 (42WH36P)
✻ U906B	23788750	FRONT-IN BOARD, PD1261A2 (51WH36P)
✻ U906C	23788460	IND BOARD, PD1103A3 (42WH36P)

Location No.	Parts No.	Description
✻ U906C	23788751	REM BOARD, PD1261A3 (51WH36P)
✻ U908	23788674	DD_CON BOARD, PD1238
UD0768	23787758	MODULE, POWER
PICTURE TUBE		
⚠ V911R	23587028	SERVICE KIT, SERVICE KIT CRT-R (42WH36P)
⚠ V911R	23587036	SERVICE KIT, SERVICE KIT CRT-R (51WH36P)
⚠ V912B	23587029	SERVICE KIT, SERVICE KIT CRT-B (42WH36P)
⚠ V912B	23587037	SERVICE KIT, SERVICE KIT CRT-B (51WH36P)
⚠ V913G	23587030	SERVICE KIT, SERVICE KIT CRT-G (42WH36P)
⚠ V913G	23587038	SERVICE KIT, SERVICE KIT CRT-G (51WH36P)
TUNER		
H001	23321398	TUNER, EURO IF ALPS, TADF4-003A
ACCESSORIES		
K902	23306434	REMOCON HAND UNIT IR, CTVPAL , CT-90100
Y101A	23565918	OWNER'S MANUAL, ENGLISH, 42WH36P/51WH36P
Y101E	23565919	OWNER'S MANUAL, EURO, 42WH36P/51WH36P
CABINET PARTS		
A110	23411869	CABINET, LIGHT BOX (42WH36P)
A110	23411913	CABINET, LIGHT BOX (51WH36P)
A125	23560038	LABEL, ATTENTION SERVICE
A160	23437802	CASTER, CASTOR ASSEMBLY DIP35 (51WH36P)
A201	23530849	COVER, BEZEL ASSEY (42WH36P)
A201	23530779	COVER, BEZEL (51WH36P)
A213	23428188	DOOR (51WH36P)
A215	23929911	PIECE, SNAP-IN GEAR DAMPER CONNON (51WH36P)
A222	23929910	PIECE, FILTER (51WH36P)
A223	23445706	BUTTON, POWER BUTTON (51WH36P)
A225	23445716	BUTTON, POWER BUTTON (42WH36P)
A225	23450681	PANEL, CONTROL PANEL (51WH36P)
A258	23530851	COVER, SPEAKER GRILLE ASSEY (42WH36P)
A258	23527268	GRILLE, SPEAKER GRILLE 51 REG (51WH36P)
A266	23450659	PANEL, POLE SPK GRILLE(RIGHT) (42WH36P)
A268	23450660	PANEL, POLE SPK GRILLE(LEFT) (42WH36P)
A268	23530966	COVER, FRONT COVER (51WH36P)
A280	23433231	DECORATIVE, PIECE (51WH36P)
A420	23540761	COVER, MIRROR COVER (42WH36P)
A420	23530781	COVER, BACK COVER (51WH36P)
A424	23411868	CABINET, VENTED BACK BOARD (42WH36P)
A424	23411914	CABINET, VENTED BACK BOARD (51WH36P)
A501	23035412	SCREW, BTB4X12 SZN
A505	72471068	SCREW, 4X12
A508	23035412	SCREW, BTB4X12 SZN
A529	23037312	SCREW, BTBW3X12SZN
A529	23037312	SCREW, BTBW3X12SZN
A543	72471068	SCREW, 4X12
A547	23035010	SCREW, PBI 4X16
A701	23067145	CARTON, CARTON (42WH36P)
A701	23067264	CARTON, CARTON (51WH36P)
A702	23946233	PACKING, TOP PACKING (42WH36P)

Location No.	Parts No.	Description
A702	23946535	PACKING, BOTTOM PACKING (51WH36P)
A703	23946234	PACKING, TOP PACKING (42WH36P)
A703	23946536	PACKING, TOP PACKING (51WH36P)
A726	23974753	POLYPROPYLENE BAND
A727	23974753	POLYPROPYLENE BAND
K101	23405101	LENS, DELTA71-A/B (42WH36P)
K102	23405101	LENS, DELTA71-A/B (42WH36P)
K103	23405101	LENS, DELTA71-A/B (42WH36P)
K501	23311897	SCREEN, 42KL LENTICULAR SHEET, SCREEN42KL-L (42WH36P)
K501	23311015	SCREEN, 51KNH LENTICULAR SHEET, SCREEN51KNHL (51WH36P)
K502	23311921	SCREEN, 42KLU FRESNEL SHEET, SCREEN42KLUF (42WH36P)
K502	23311016	SCREEN, 51KN FRESNEL SHEET, SCREEN51KN-F (51WH36P)
K601	23405045	MIRROR, MIRROR 42W FIRST T3 (42WH36P)
K601	23405253	MIRROR, MIRROR 51W (51WH36P)

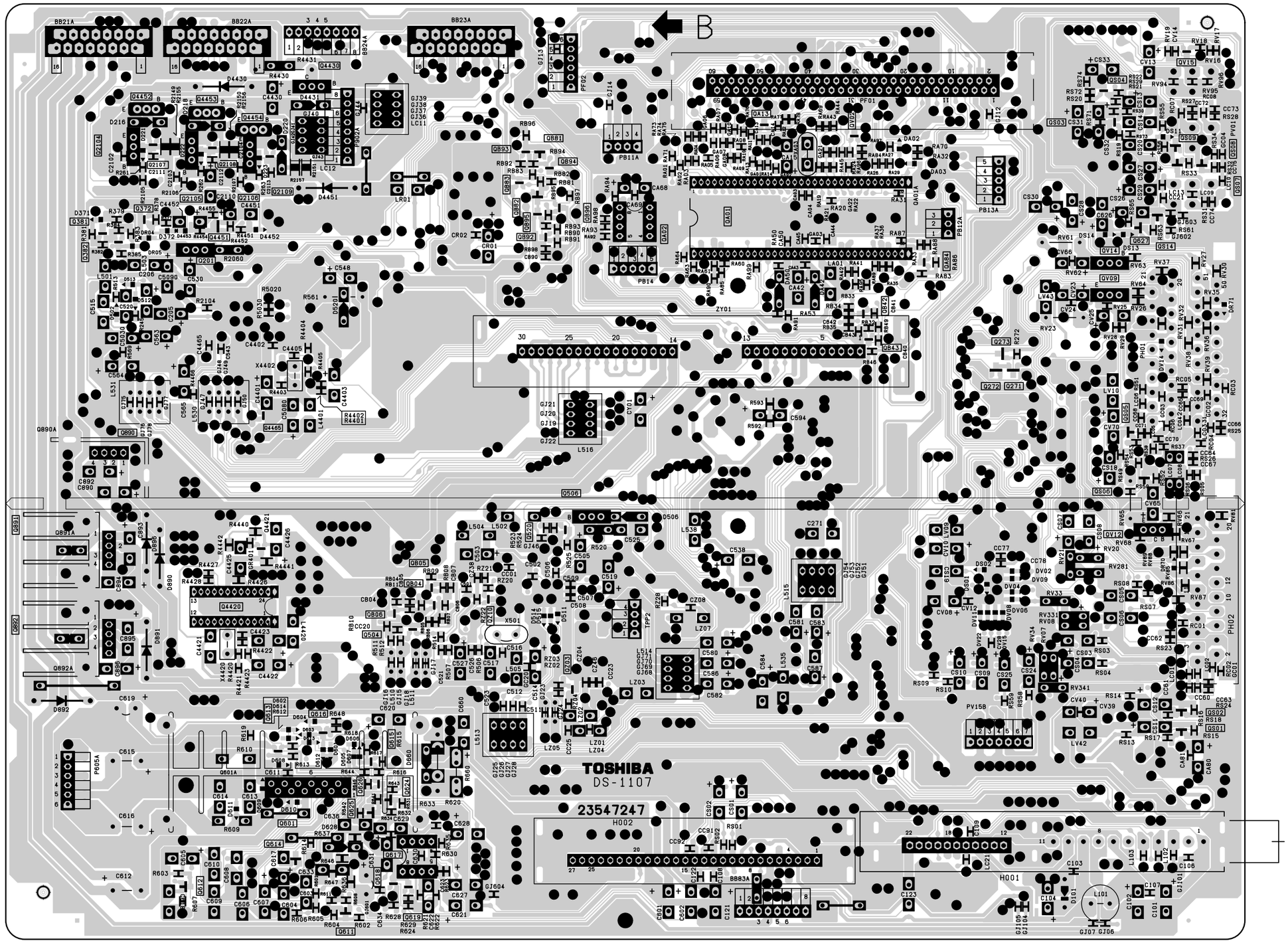
Location No.	Parts No.	Description

PC BOARDS LAYOUT TOP VIEW



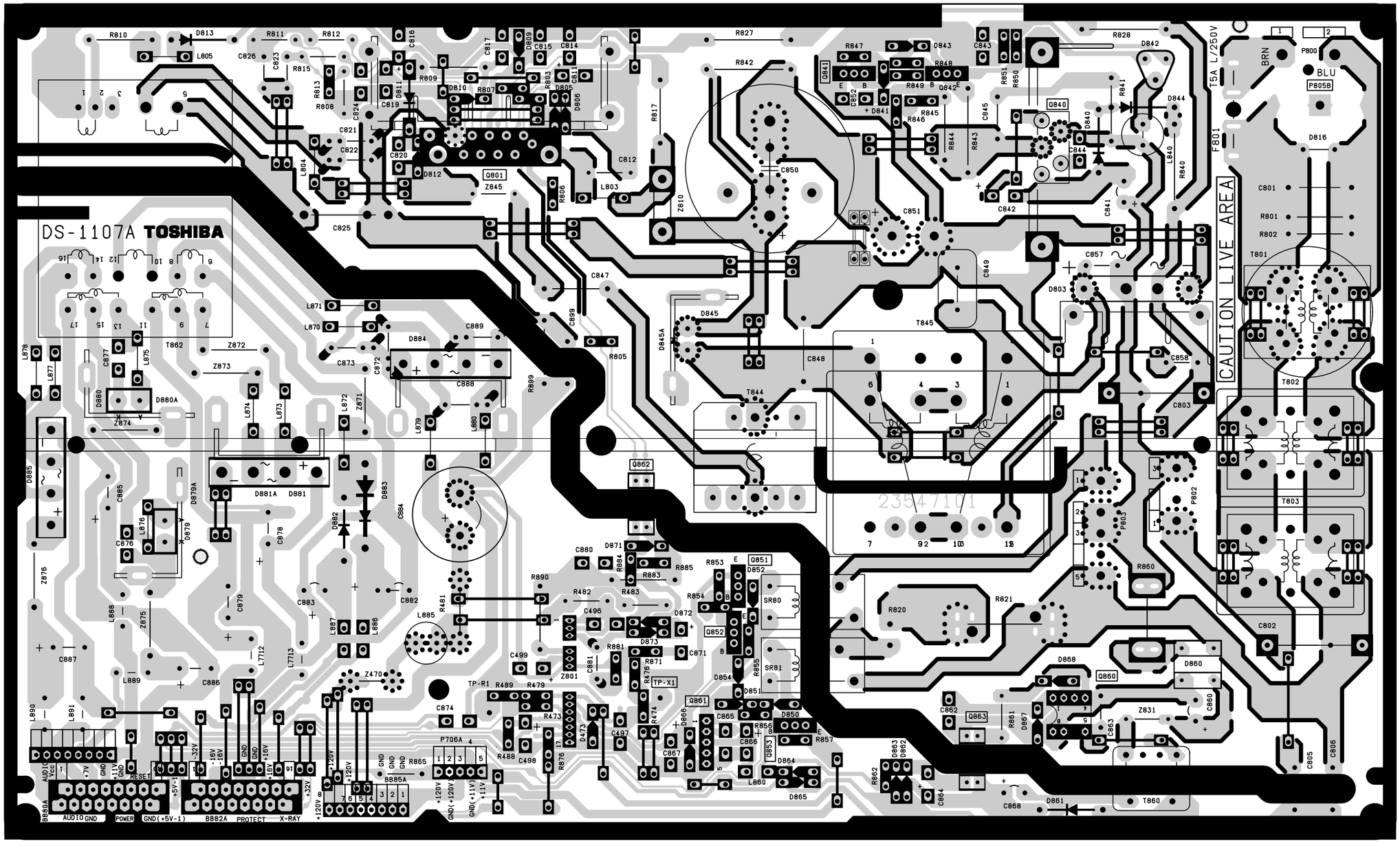
SIGNAL BOARD PD1098A (42")
SIGNAL BOARD PD1098C (51")

BOTTOM (FOIL) SIDE



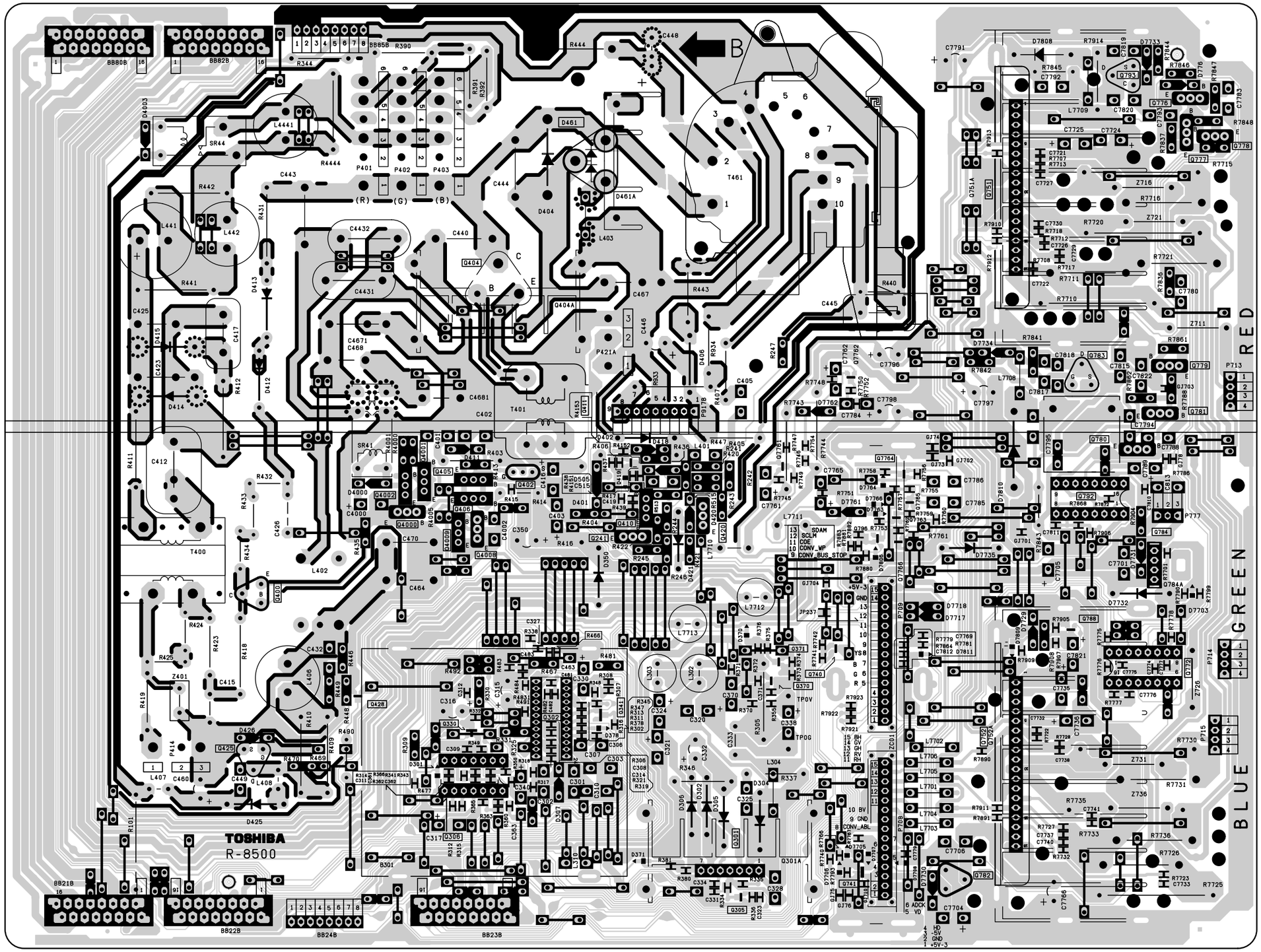
POWER BOARD PD0768B

BOTTOM (FOIL) SIDE



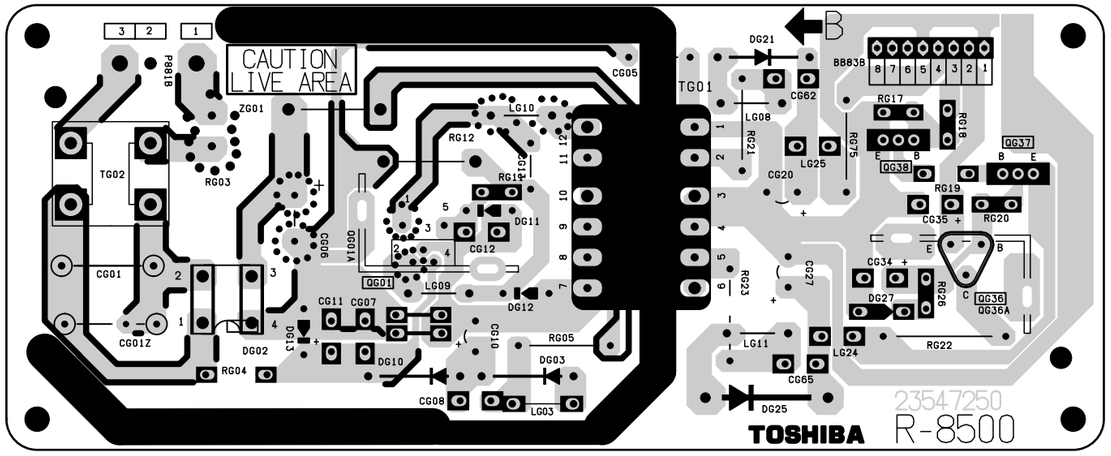
DEF/CONV BOARD PD01099A

BOTTOM (FOIL) SIDE



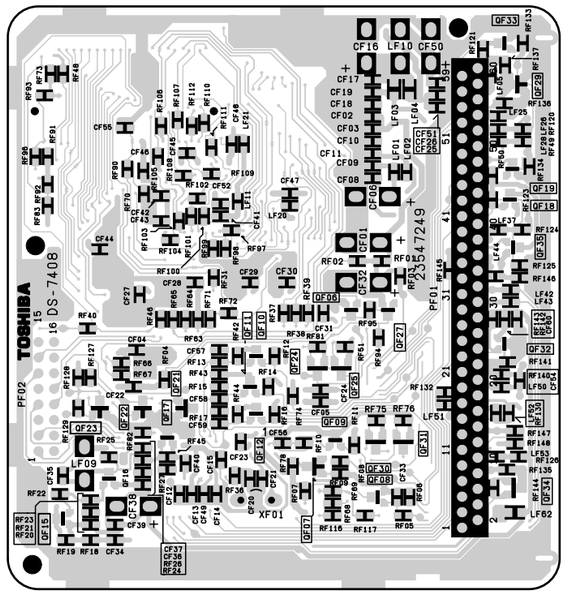
EPG POWER BOARD PD1101

BOTTOM (FOIL) SIDE



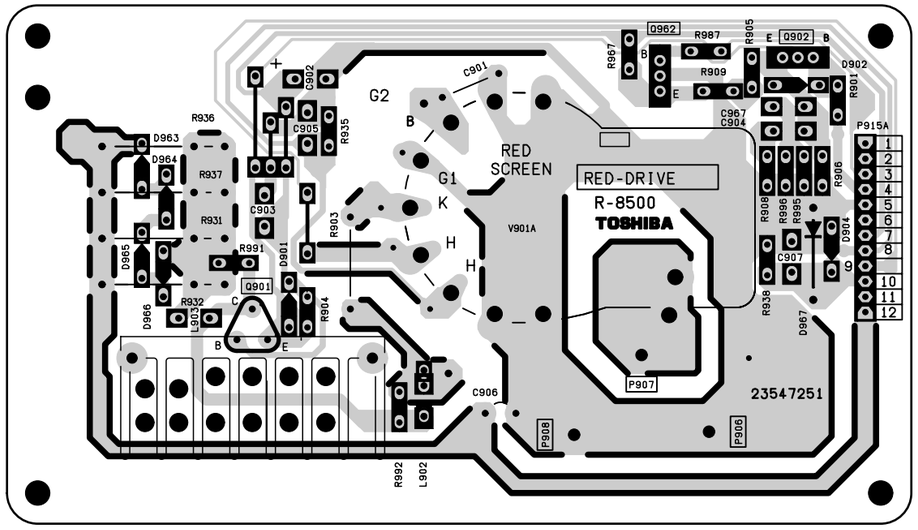
TEXT BOARD PD1100

BOTTOM (FOIL) SIDE



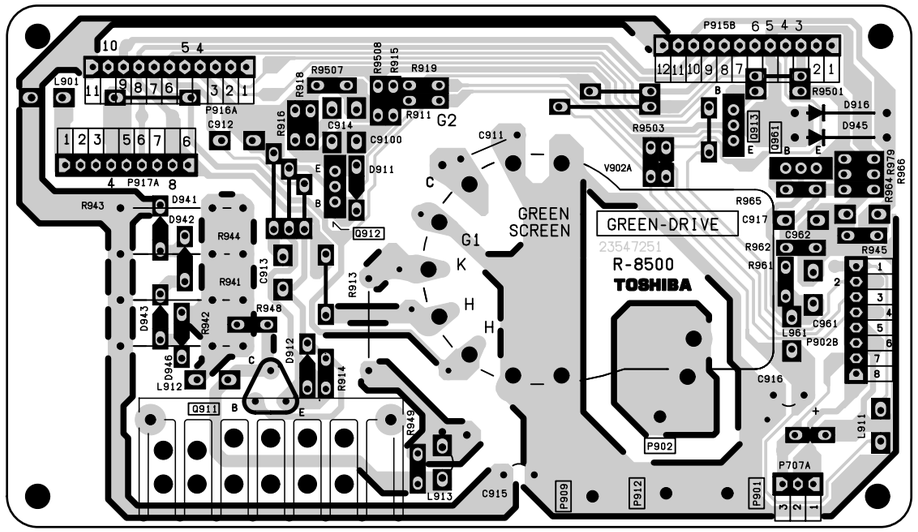
CRT-R BOARD PD01102A-1

BOTTOM (FOIL) SIDE



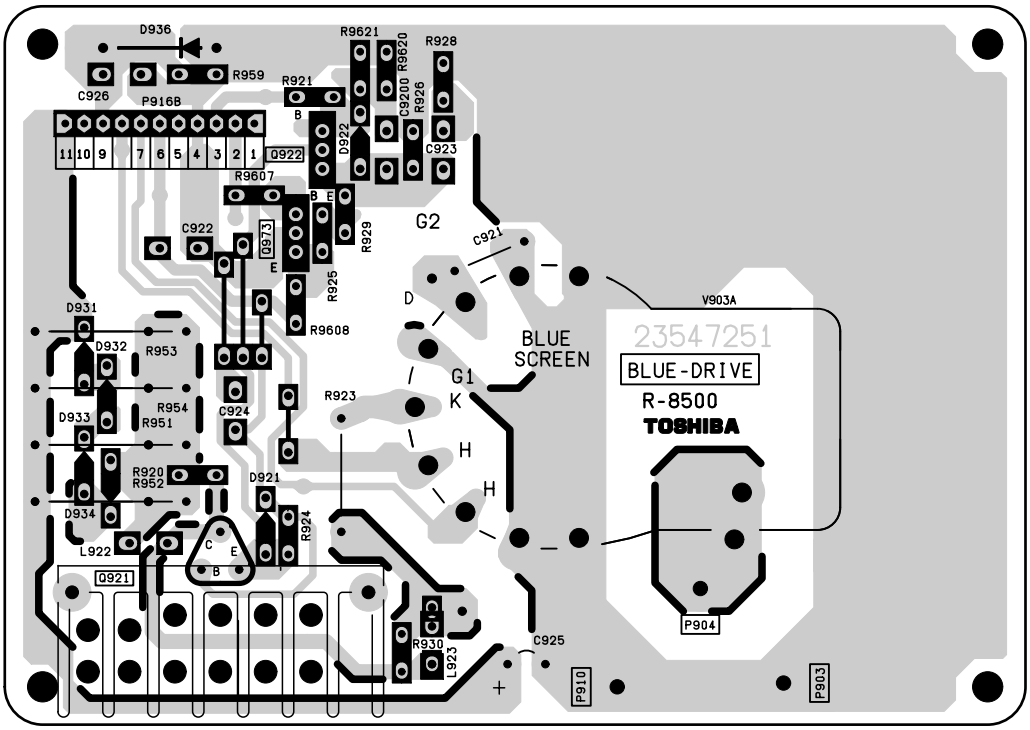
CRT-G BOARD PD01102A-2

BOTTOM (FOIL) SIDE



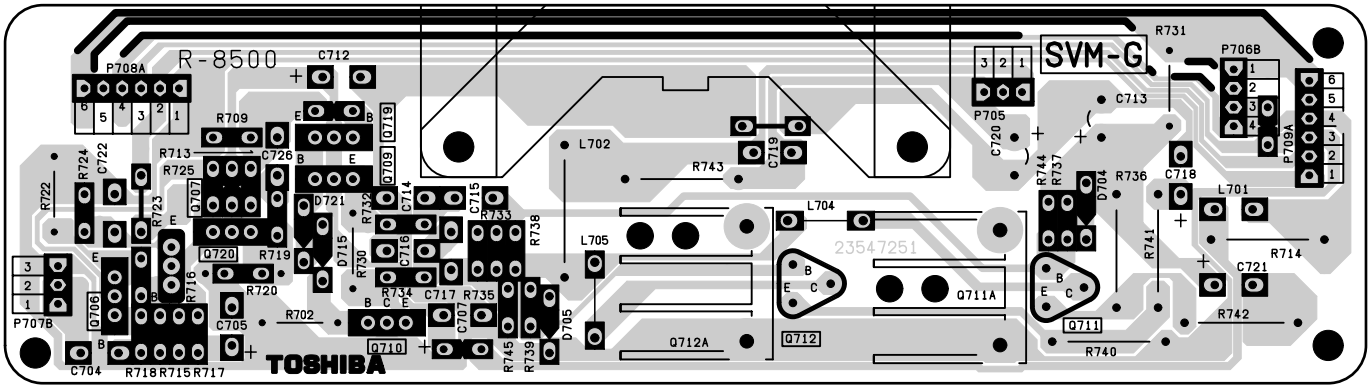
CRT-B BOARD PD1102A-3

BOTTOM (FOIL) SIDE



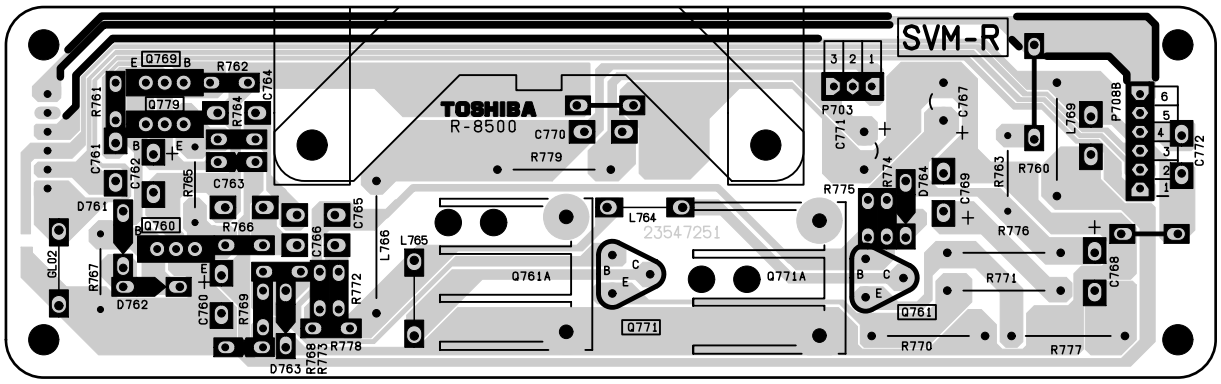
SVM-G BOARD PD1102A-4

BOTTOM (FOIL) SIDE



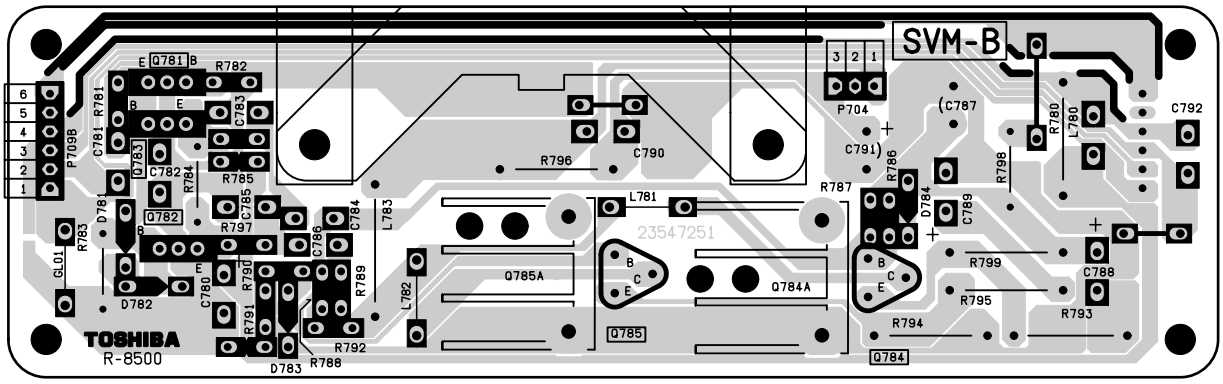
SVM-R BOARD PD1102A-5

BOTTOM (FOIL) SIDE



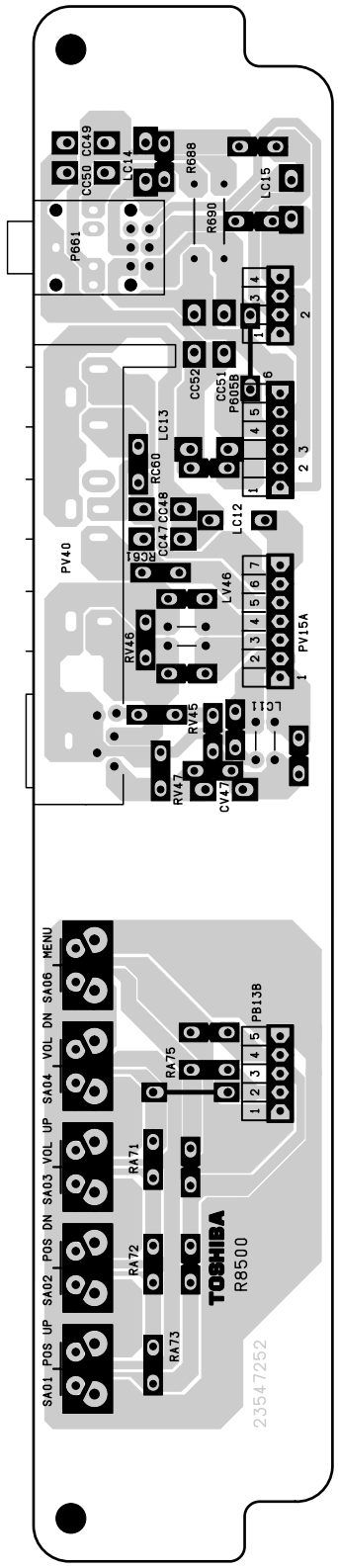
SVM-B BOARD PD1102A-6

BOTTOM (FOIL) SIDE



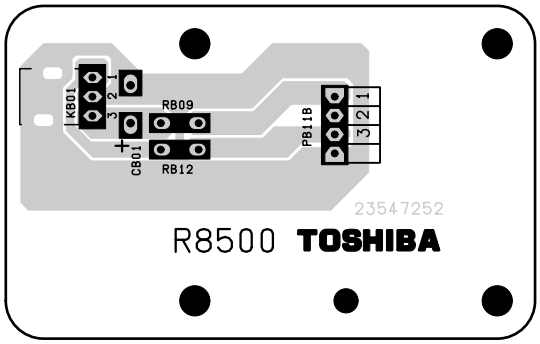
FRONT IN BOARD PD1103A-1 (42")

BOTTOM (FOIL) SIDE



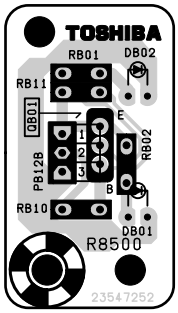
RMT IN BOARD PD1103A-2 (42")

BOTTOM (FOIL) SIDE



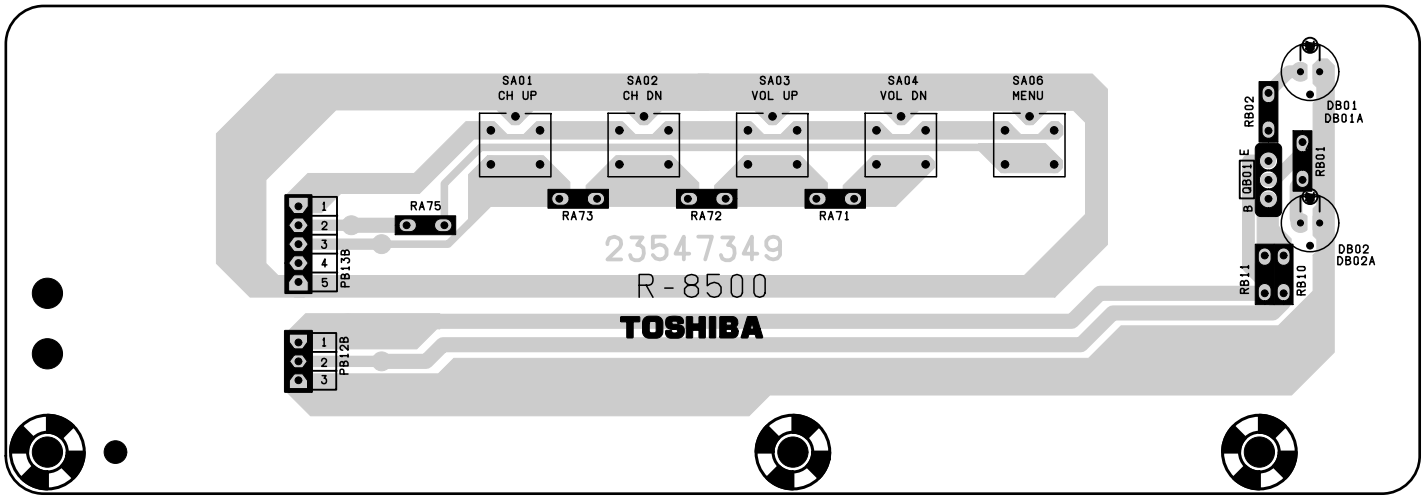
IND BOARD PD1103A-3 (42")

BOTTOM (FOIL) SIDE



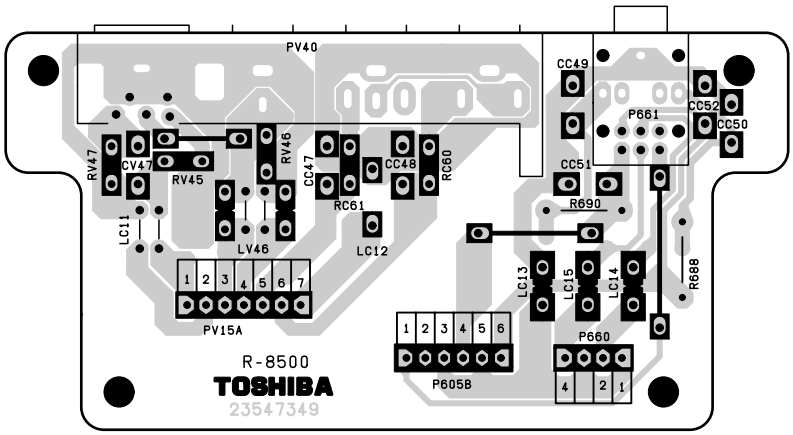
FRONT-CON BOARD PD1261A-1 (51")

BOTTOM (FOIL) SIDE



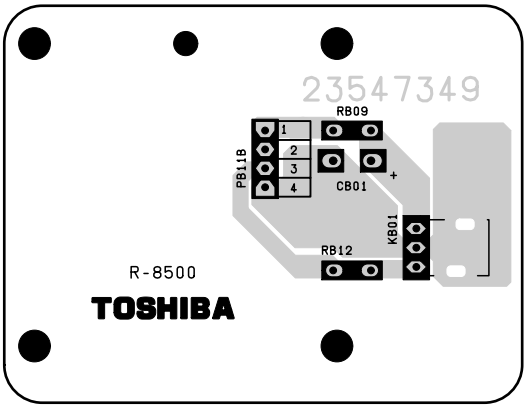
FRONT IN BOARD PD1261A-2 (51")

BOTTOM (FOIL) SIDE



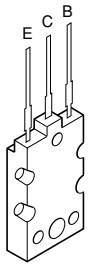
REM BOARD PD1261A-3 (51")

BOTTOM (FOIL) SIDE

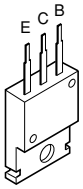


TERMINAL VIEW OF TRANSISTORS

① 2SD2253
(old)
2SC5243



② 2SC3852
2SD1763A
2SC1569
2SC4544
2SA1788
2SA1306
2SA1186A



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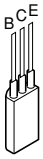
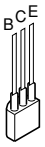
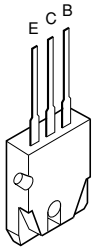
2SC2482
2SC2655
2SC4721P



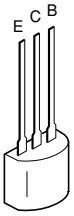
④ 2SC752
2SA562TM
2SA1015
2SC1815
2SC2878
2SC1740S
2SC2120
2SA9335



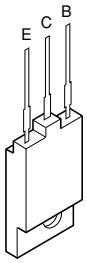
⑤ 2SA1788



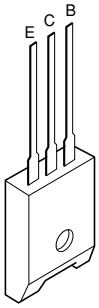
⑥ RN2203
RN2201
RN2004
RN1203
RN1204
RN2204
RN1205
RN1202
RN1201



⑦ 2SD1554
2SD2253
2SD1556
2SC5143
2SD2553



⑧ ON4409



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SCHEMATIC DIAGRAM

MODEL : 42WH36P / 51WH36P

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

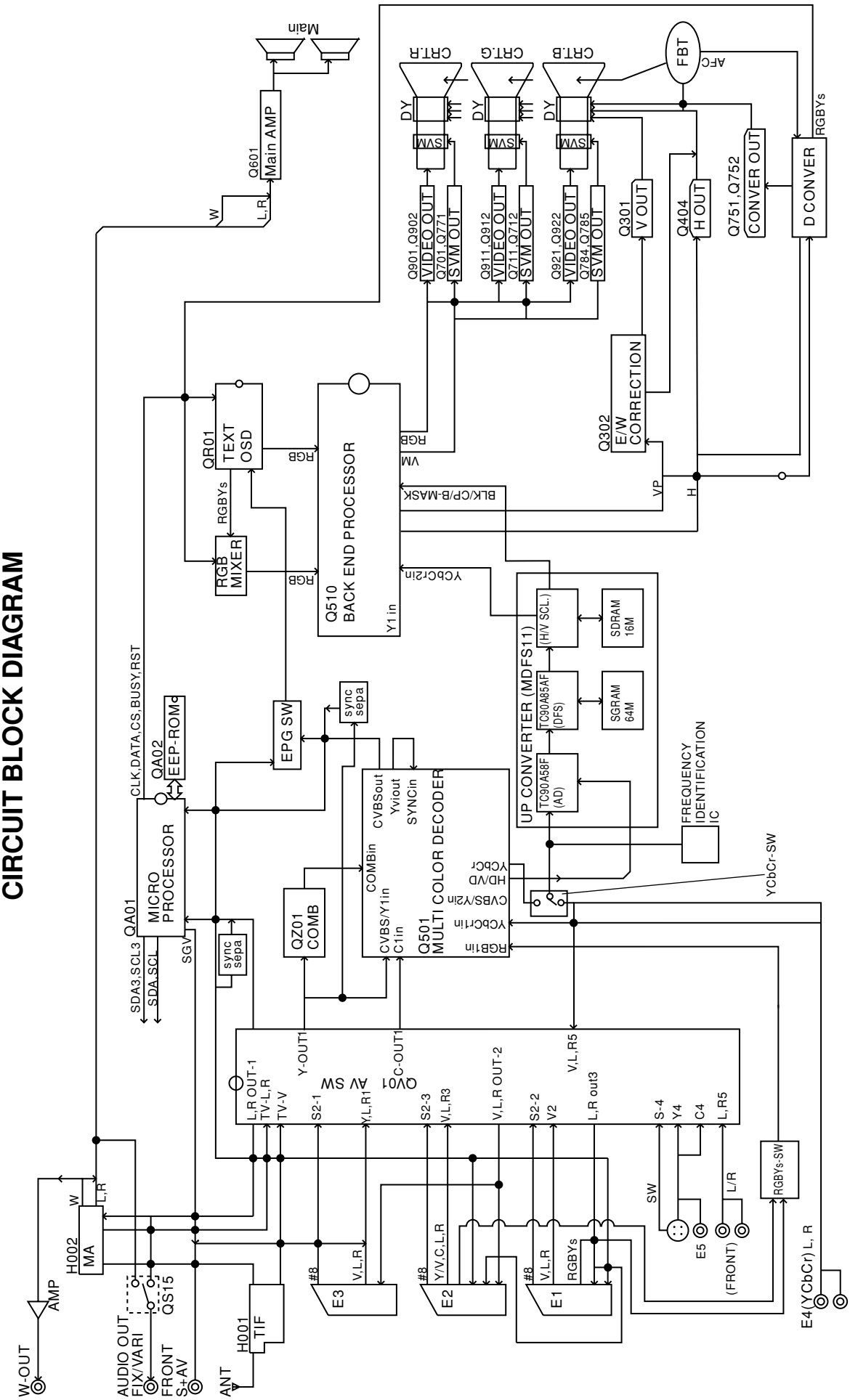
NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   —|(+)|— Electolytic capacitor —|(M)|— Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ **SCHEMATIC DIAGRAM STRUCTURE:**

- SIGNAL Circuit
  - CONNECTION [SHEET - 1/8] 1/19
  - μ-CON [SHEET - 2/8] 2/19
  - FRONT-END [SHEET - 3/8] 3/19
  - UPCON [SHEET - 4/8] 4/19
  - BEP [SHEET - 5/8] 5/19
  - AV [SHEET - 6/8] 6/19
  - Audio [SHEET - 7/8] 7/19
  - IF [SHEET - 8/8] 8/19
- POWER Circuit 9/19
- DEF / CONVER-OUT Circuit
  - CONNECTION [SHEET - 1/3] 10/19
  - DEF [SHEET - 2/3] 11/19
  - CONV [SHEET - 3/3] 12/19
- EPG POWER Circuit 13/19
- EPG-M2 2nd. Generation Circuit
  - (1/2) [SHEET - 1/2] 14/19
  - (2/2) [SHEET - 2/2] 15/19
- CRT-D SVM Circuit
  - CRT-D [SHEET - 1/2] 16/19
  - SVM [SHEET - 2/2] 17/19
- FRONT Circuit (42WH36P) 18/19
- FRONT Circuit (51WH36P) 19/19

CIRCUIT BLOCK DIAGRAM



2003 Euro PJTV CIRCUIT BLOCK DIAGRAM

SPECIFICATIONS

Broadcast systems/channels

PAL-I	UHF UK21-UK69
PAL-B/G	UHF E21-E69 VHF E2-E12, S1-S41
SECAM-L	UHF F21-F69 VHF F1-F10, B-Q
SECAM-D/K	UHF R21-R69 VHF R1-R12

Video Input PAL, SECAM, NTSC 3.58/4.43

External connections

EXT1	Input	21-pin Scart	RGB, A/V
EXT2	Input	21-pin Scart	RGB, A/V
EXT3	Input/Output	21-pin Scart	A/V, S-video Selectable output
EXT4	Input	Phono jacks Phono jacks	Y, P_B/C_B, P_R/C_R Audio L+ R
EXT5	Input (side/front)	4-pin Phono jack Phono jacks	S-video Video Audio L + R
Fixed/Variable Output		Phono jacks	Audio L + R
Output to Active Super Woofer		Phono socket	

Programme Positions 100

Stereo Nicam
2 carrier system

Visible Screen Size (approx.)

42ins	107cm
51ins	129cm
57ins	144cm

Display 16:9

Sound output (at 10% distortion) Main 20W + 20W

Power consumption as specified in EN60107-1 : 1997

42ins	185W
51ins	185W
57ins	185W

Standby

42ins	<2.5W
51ins	<2.5W
57ins	<2.5W

Dimensions (approx.)

42ins	116cm (H)	101cm (W)	42cm (D)
51ins	128cm (H)	121cm (W)	57cm (D)
57ins	140cm (H)	133cm (W)	60cm (D)

Weight (approx.)

42ins	52kg
51ins	65kg
57ins	92kg

Headphone soclet 3.5mm stereo

Accessories Remote control
2 batteries
(UM-4, AAA, IEC R03 1.5V)

* Please refer to owner's manual in detail.

– END –

TOSHIBA CORPORATION

SCHEMATIC DIAGRAM

MODEL : 42WH36P / 51WH36P

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

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   —|+|— Electolytic capacitor —|®|— Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
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  - BEP [SHEET - 5/8] 5/19
  - AV [SHEET - 6/8] 6/19
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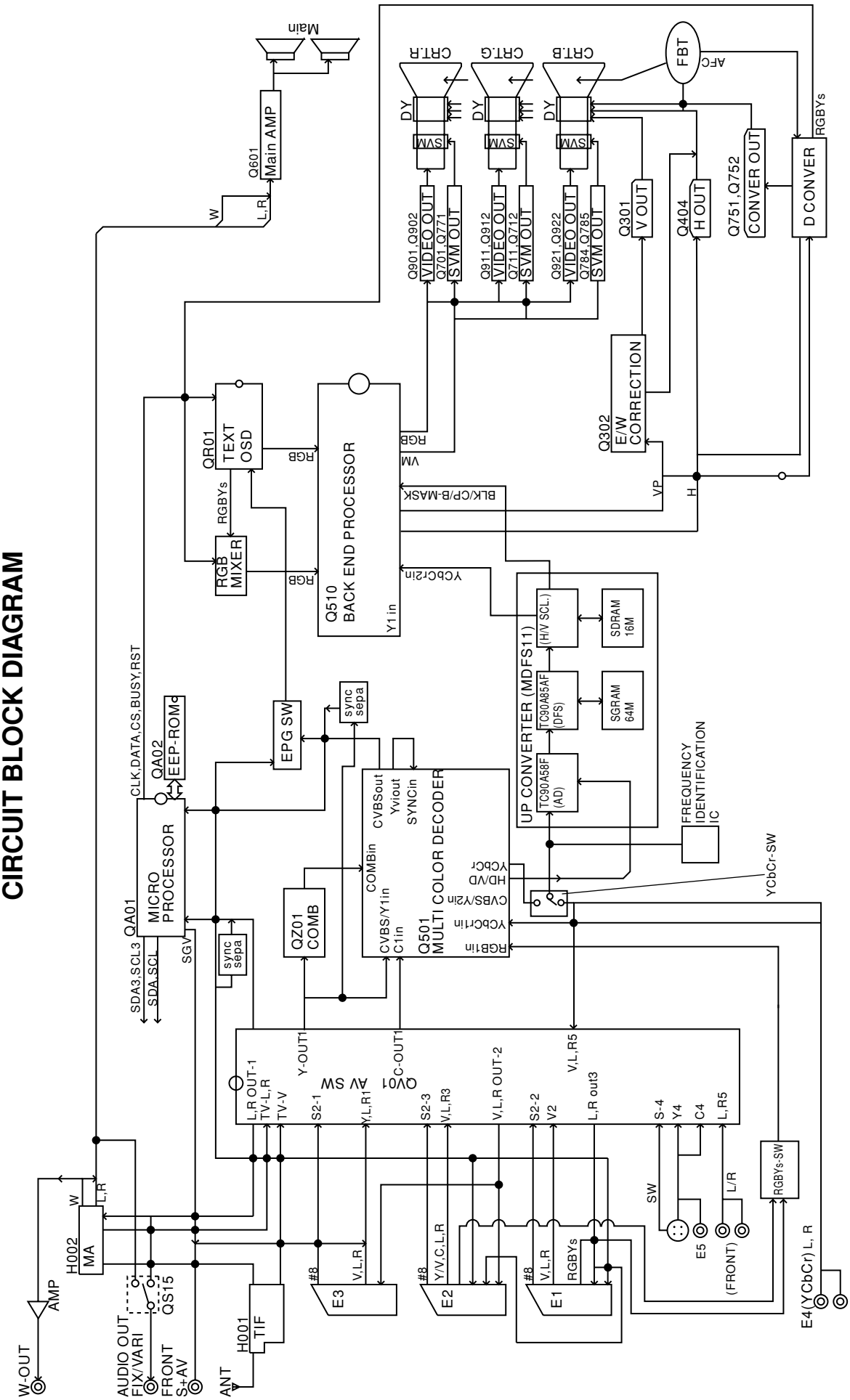
  - CRT-D [SHEET - 1/2] 16/19
  - SVM [SHEET - 2/2] 17/19
- FRONT Circuit (42WH36P) 18/19
- FRONT Circuit (51WH36P) 19/19

CIRCUIT BLOCK DIAGRAM



2003 Euro PJTV CIRCUIT BLOCK DIAGRAM

SIGNAL PANEL

U912
N691
N692
N693
N694
N695

D891 1N4884A-FL ER812-6T
Q891 NJM2396F05
C894 50V22
C893 50V10
Q891C
Q891B

D892 1N4884A-FL ER812-6T
Q892 NJM2396F05
C896 50V22
C895 50V10
Q892C
Q892B

D890 1N4884A-FL ER812-6T
Q890 NJM2396F09
C892 50V22
C890A
C890 50V10
D896 1N4884A-FL ER812-6T
Q890C
Q890B

5V DFS 4-B1 5V3
5V2 5V2
1-E4 2-E8 3-C1 4-B1 5-D1 6-A7 7-C2 8-C7 8-D2 9V1

EPG POWER

BB03A 8P 2.5PJ-P
GND
TUNER 32V 32V_EPG 8-D2
EPG POWER EPGPOWER 2-E8
EPG 5V 5V_EPG 2-B1 8-C6 8-D2
EPG GND

CRT-DRIVE

P902A 8P
9V CRT9V 5-E7
B B 5-E7
G G 5-E7
R R 5-E7
GND GND_LC1 1-D1 5-D7
GND GND_LC1 1-D1 5-D7
GND GND_VM 5-D7
VM VM 5-D7

SET REAR

BB22A BB 16P SOCKET
H_COMP 5-C1
BLK 4-E8 5-A1
VP 0510 2-E1 4-C1
V STOP 5-A1
NC
GND
GND
SDA2 2-C8 3-D8 4-A1 5-F1
SCL2 2-C8 3-D8 4-A1 5-F1
GND
CONV-R 2-A8
CONV-G 2-A8
CONV-B 2-A8
CONV-VS 2-B8
CONV-RST 2-D1
I2C-STOP CONV_BUS_OFF 2-C8

BB22A BB 16P SOCKET
+16V-2 16V2 5-A1
GND
GND
31.5KHZ_DET
GND
GND
+5V-1 5V1 2-C1
ABL SW ABL_SW 5-E1
ABL 2-E1
AFC 2-C1
H-DRIVE 5-C1
HD_GND
POWER 2-D8
RESET
STANDBY GND
+5V-1 5V1 2-B1

1-C5 2-C5 3-C1 4-B1 5-D1 6-D1 7-A7 7-C2 8-C7 8-D2

BB21A BB 16P SOCKET
NC
NC
GND
GND
CONV WP E_CONV 2-B8
NC
PUMPUP PULSE CONV_WP 2-E8
HP 2.5PJ-P BB24A

BB21A BB 16P SOCKET
GND_TUN
TUNER +32V 32V 8-D2
TUNER +32V
NC
GND_11V
GND_11V
+11V 11V 5-A1 7-D2
+11V
GND_7V
GND_7V
+7V
+7V
AUDIO GND GND_A 1-C7 1-C7 6-A1 6-D8 7-B2 7-B7 7-B7 7-C7
AUDIO GND
AUDIO VCC AUDIO_VCC 7-C7
AUDIO VCC

SET FRONT

PB11A 4P
2-C8 RMT_IN
GND
RMT IN
+5V-1
RMT

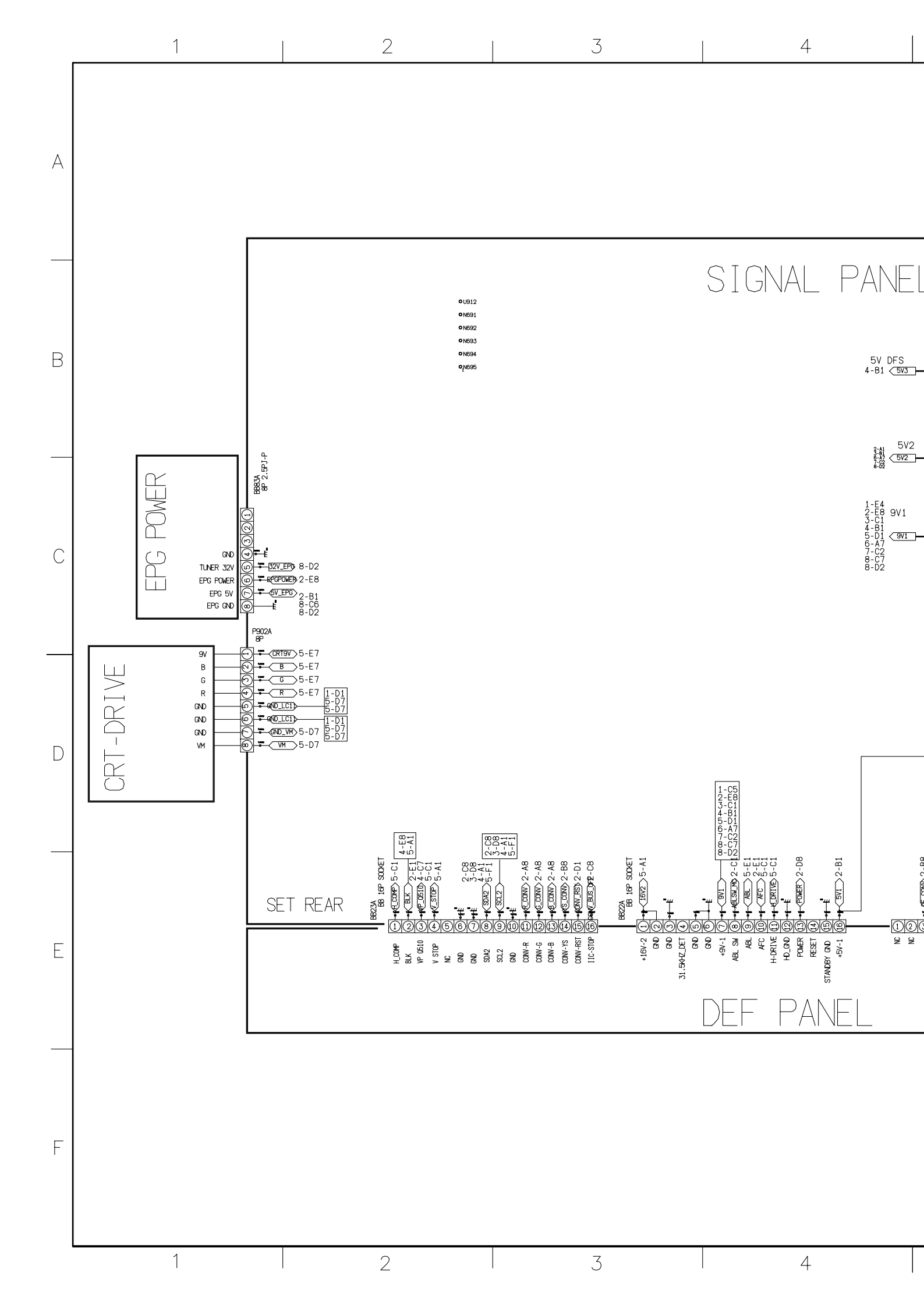
PB12A 3P 2.5mm_1.5A_Beige
2-C8 LED
GND
LED
5V-1
LED

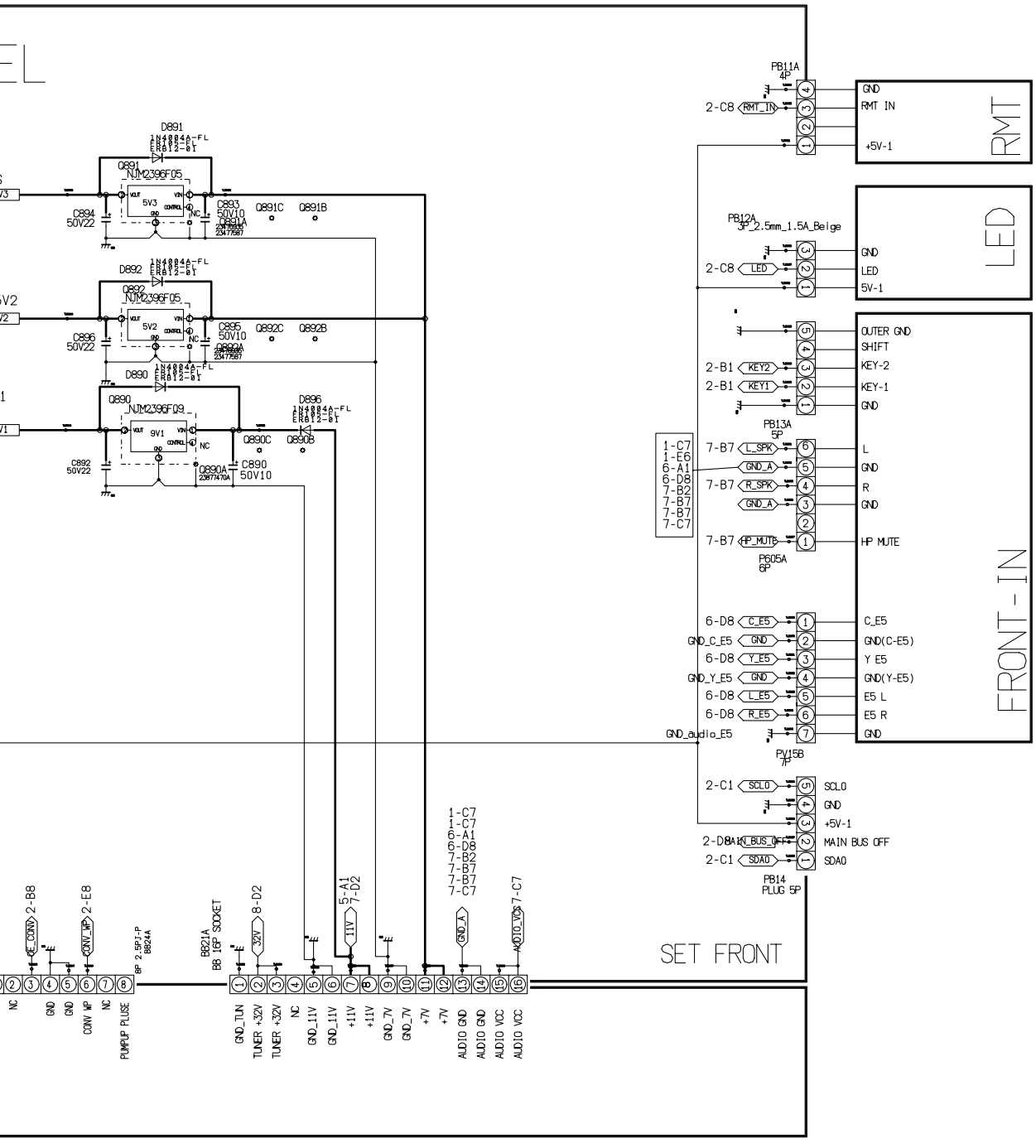
PB13A 5P
1-C7 1-E6 6-A1 6-D8 7-B2 7-B7 7-B7 7-C7
2-B1 KEY2
2-B1 KEY1
OUTER GND
SHIFT
KEY-2
KEY-1
GND
7-B7 L_SPK
GND_A
7-B7 R_SPK
GND_A
7-B7 HP_MUTE
L
GND
R
GND
HP MUTE

P605A 6P
6-D8 C_E5
GND_C_E5
6-D8 Y_E5
GND_Y_E5
6-D8 L_E5
6-D8 R_E5
GND_audio_E5
C_E5
GND(C-E5)
Y E5
GND(Y-E5)
E5 L
E5 R
GND
FRONT-IN

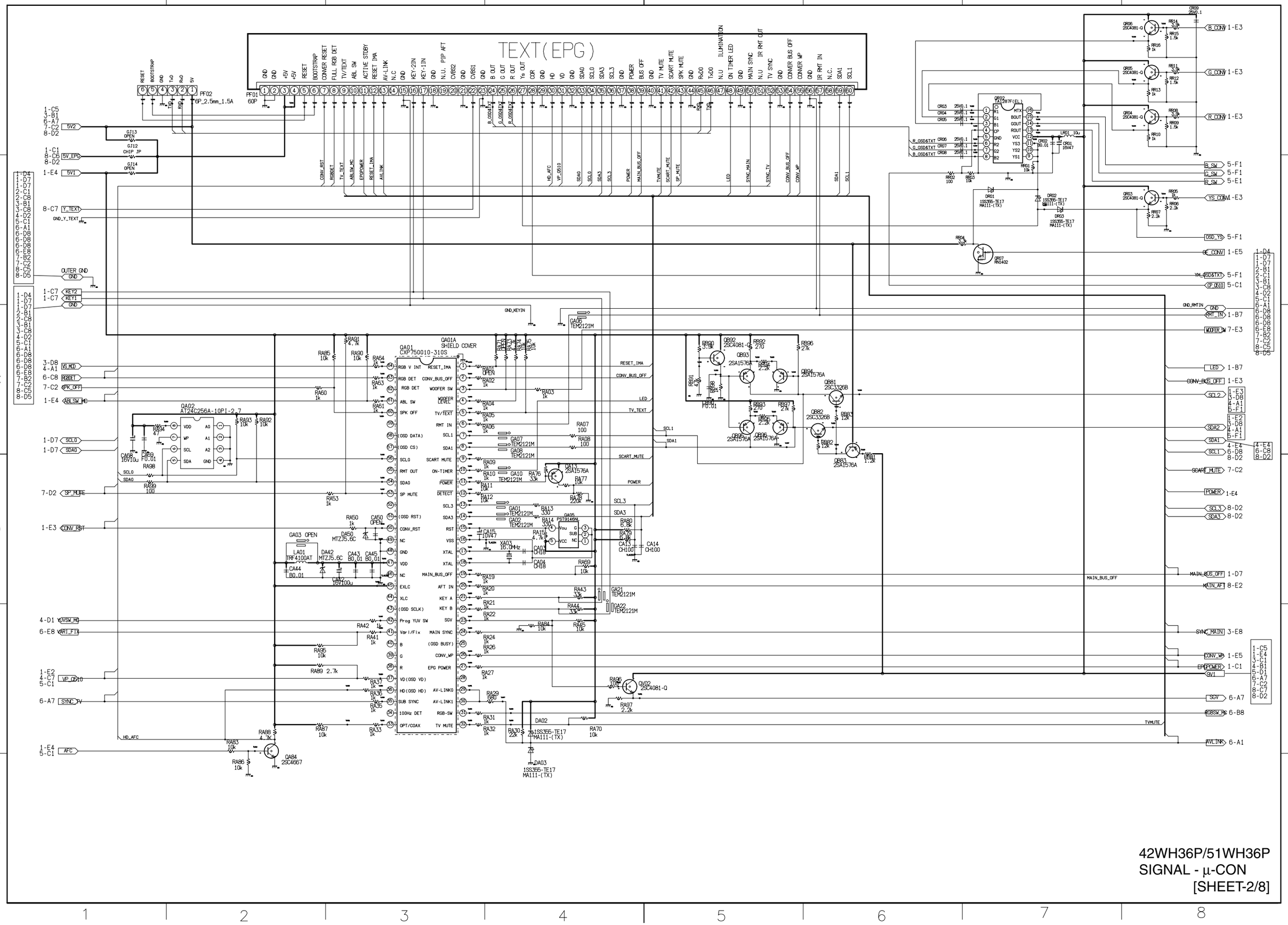
PW15B 7P
2-C1 SCL0
GND
+5V-1
2-D8 MAIN_BUS_OFF
2-C1 SDA0
SCL0
GND
+5V-1
MAIN BUS OFF
SDA0
PB14 PLUG 5P

DEF PANEL

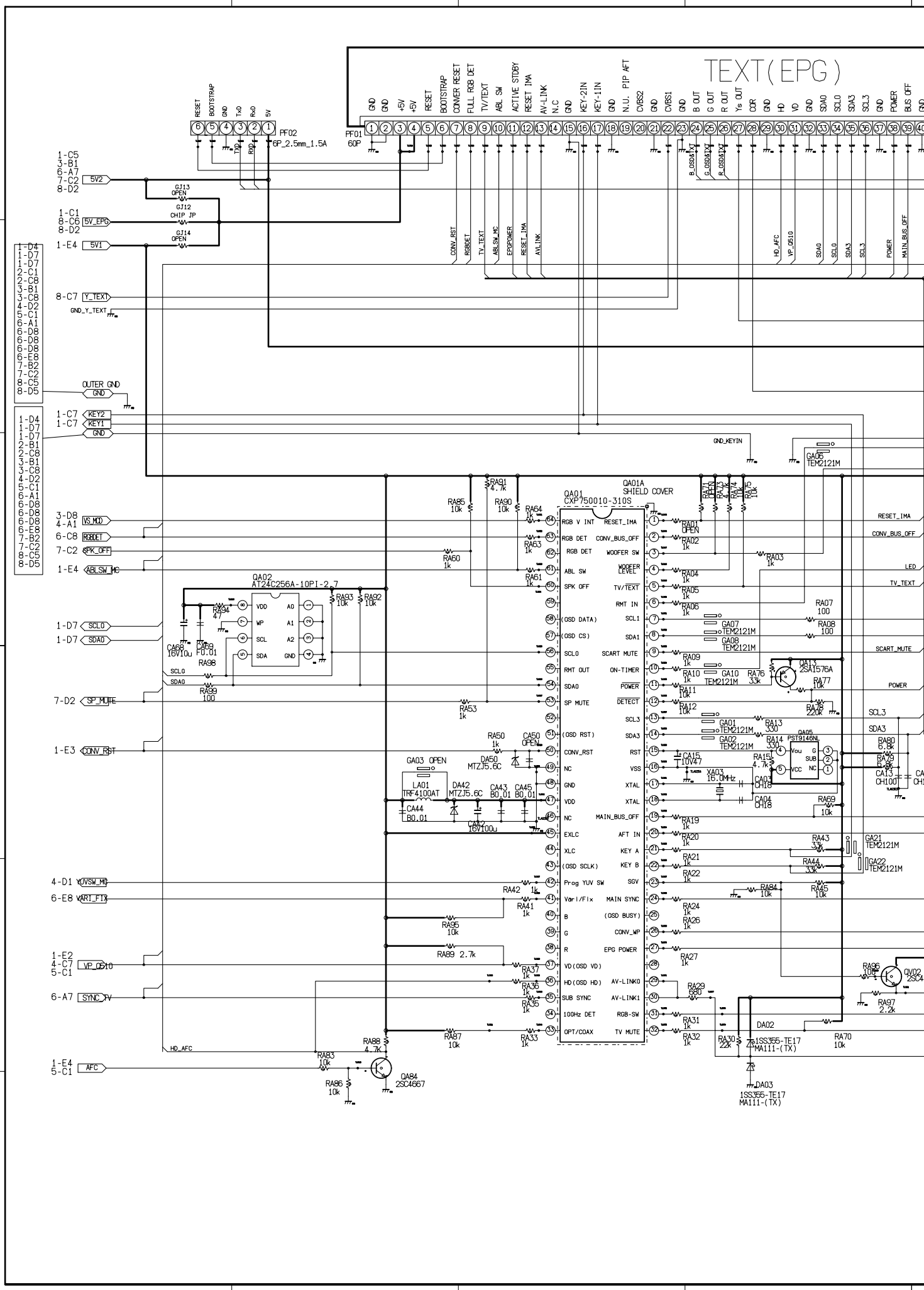

SIGNAL PANEL
DEF PANEL
EPG POWER
CRT-DRIVE
SET REAR
BB83A 8P 2.5PJ-P
GND
TUNER 32V
EPG POWER
EPG 5V
EPG GND
32V_EPG
GPOWER
5V_EPG
P902A 8P
9V
B
G
R
GND
GND
GND
VM
CRT9V
GND_LC1
GND_VM
BB23A BB 16P SOCKET
H_COMP
BLK
VP 0510
V STOP
NC
GND
GND
SDA2
SCL2
GND
CONV-R
CONV-G
CONV-B
CONV-YS
CONV-RST
IIC-STOP
BB22A BB 16P SOCKET
+16V-2
GND
GND
31.5KHZ_DET
GND
GND
+9V-1
ABL SW
ABL
AFC
H-DRIVE
HD_GND
POWER
RESET
STANDBY GND
+5V-1
NC
NC
5V DFS
5V3
5V2
9V1
U912
N691
N692
N693
N694
N695

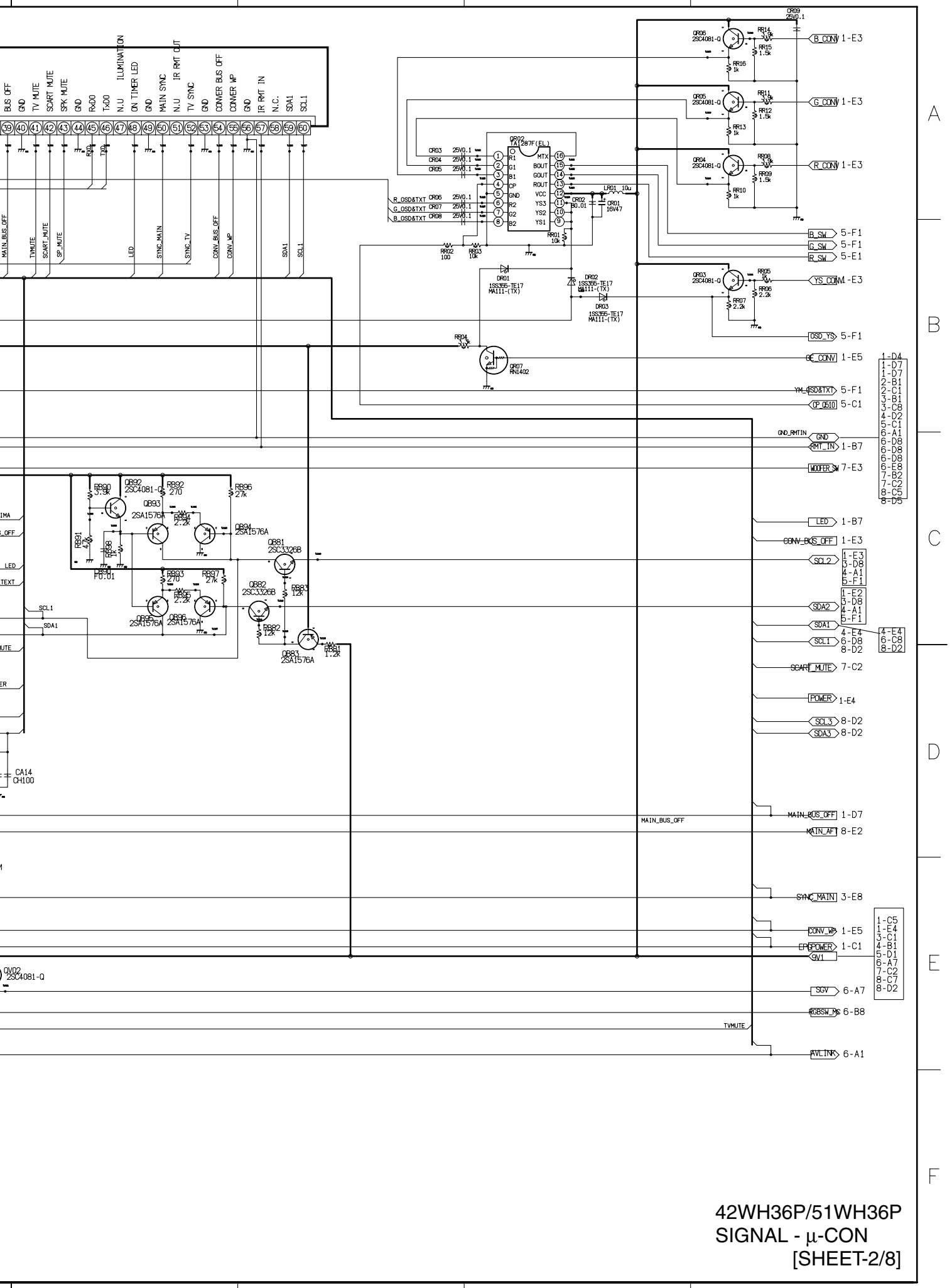


42WH36P/51WH36P
SIGNAL - CONNECTION
[SHEET-1/8]

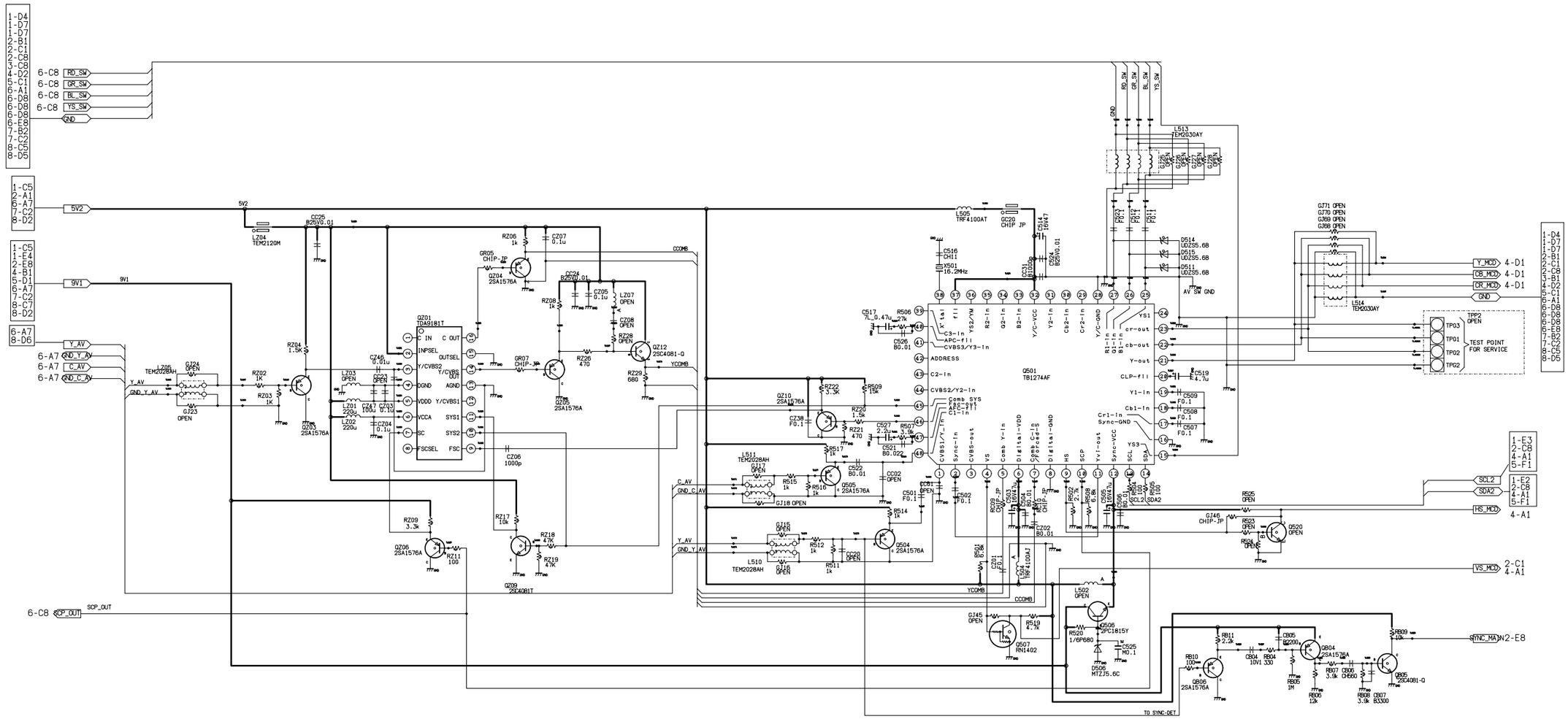


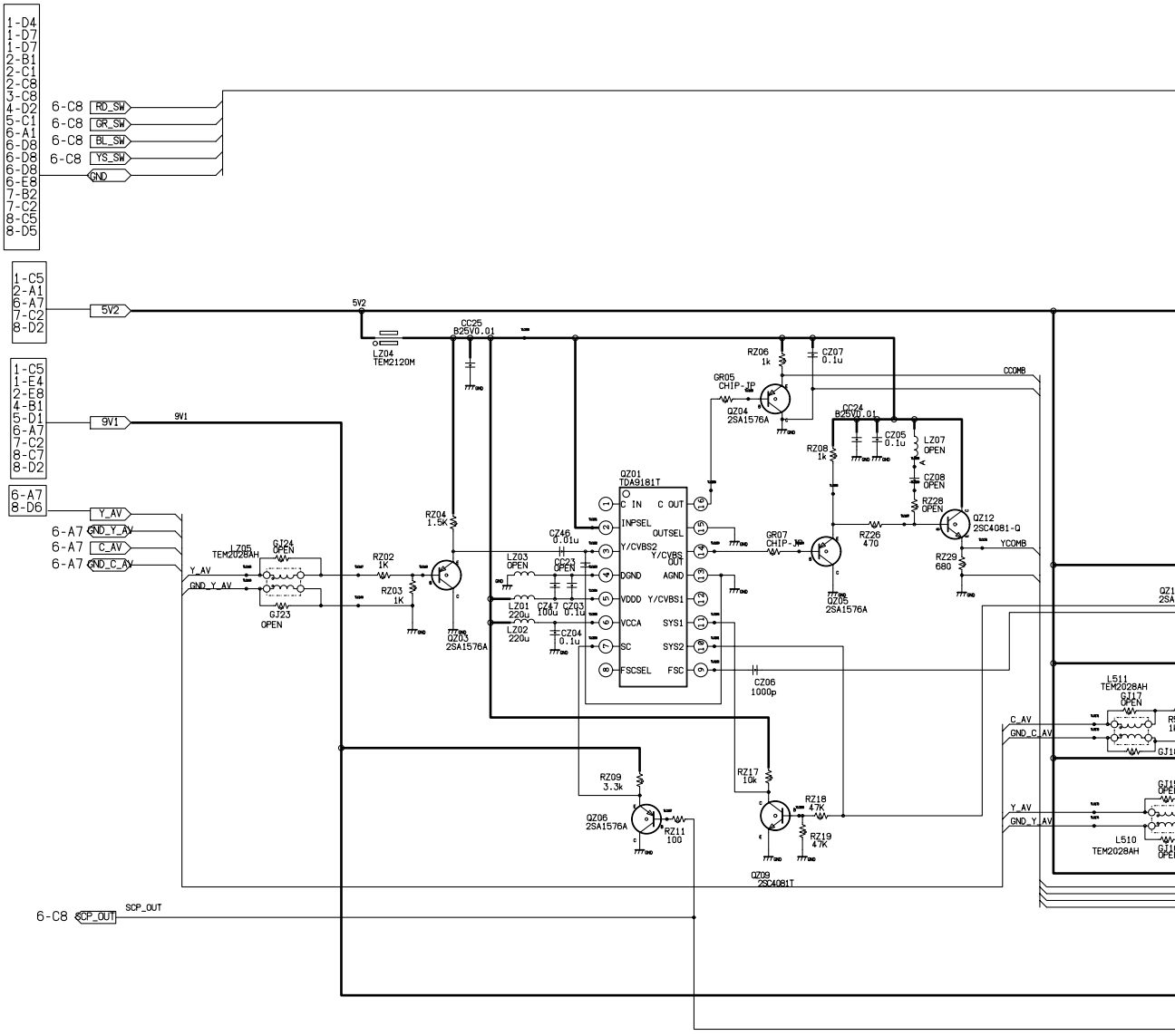
42WH36P/51WH36P
SIGNAL - μ-CON
[SHEET-2/8]

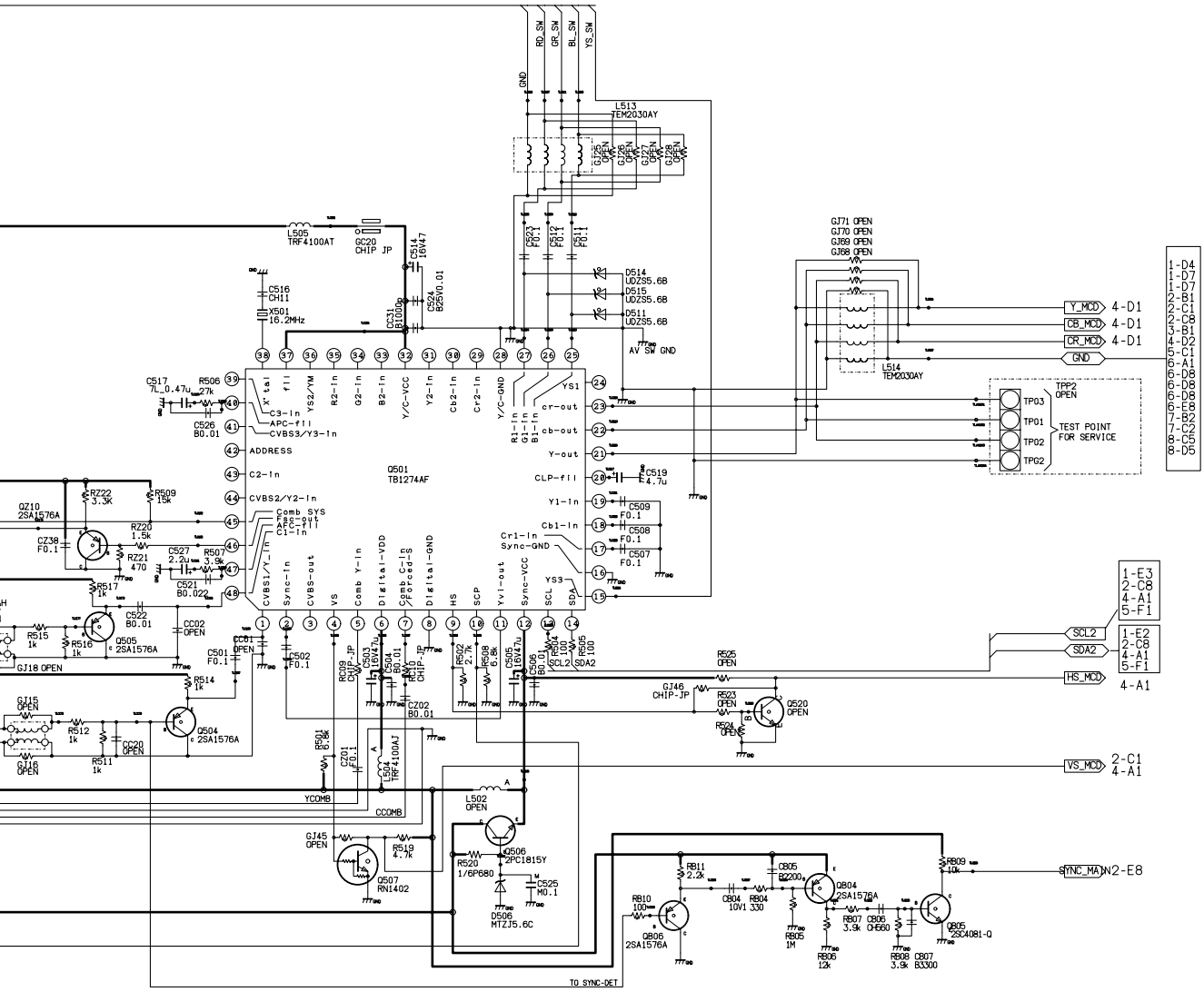

TEXT(EPG)
PF01
60P
PF02
6P_2.5mm_1.5A
RESET
BOOTSTRAP
GND
TxD
RxD
5V
GND
+5V
RESET
BOOTSTRAP
CONVER RESET
FULL RGB DET
TV/TEXT
ABL SW
ACTIVE STDBY
RESET IMA
AV-LINK
N.C
KEY-2IN
KEY-1IN
N.U. P1P AFT
CVBS2
CVBS1
B OUT
G OUT
R OUT
Ys OUT
CDR
HD
VD
SDA0
SCL0
SDA3
SCL3
POWER
BUS OFF
5V2
5V_EPG
5V1
GJ13 OPEN
GJ12 CHIP JP
GJ14 OPEN
Y_TEXT
GND_Y_TEXT
OUTER GND
KEY2
KEY1
GND_KEYIN
QA01
CXP750010-310S
QA01A
SHIELD COVER
QA02
AT24C256A-10PI-2.7
VS_MOD
RGBDET
SPK_OFF
ABLSW_MC
SCL0
SDA0
SP_MUTE
CONV_RST
VP_OS10
SYNC_FV
AFC
HD_AFC
QA84
2SC4667
DA01
DA02
DA03
1SS355-TE17
MA111-(TX)
LA01
TRF4100AT
GA03 OPEN
QA13
2SA1576A
QA14
PST9146NL
XA03
16.0MHz
RESET_IMA
CONV_BUS_OFF
LED
TV_TEXT
SCART_MUTE
POWER
SCL3
SDA3
MAIN_BUS_OFF



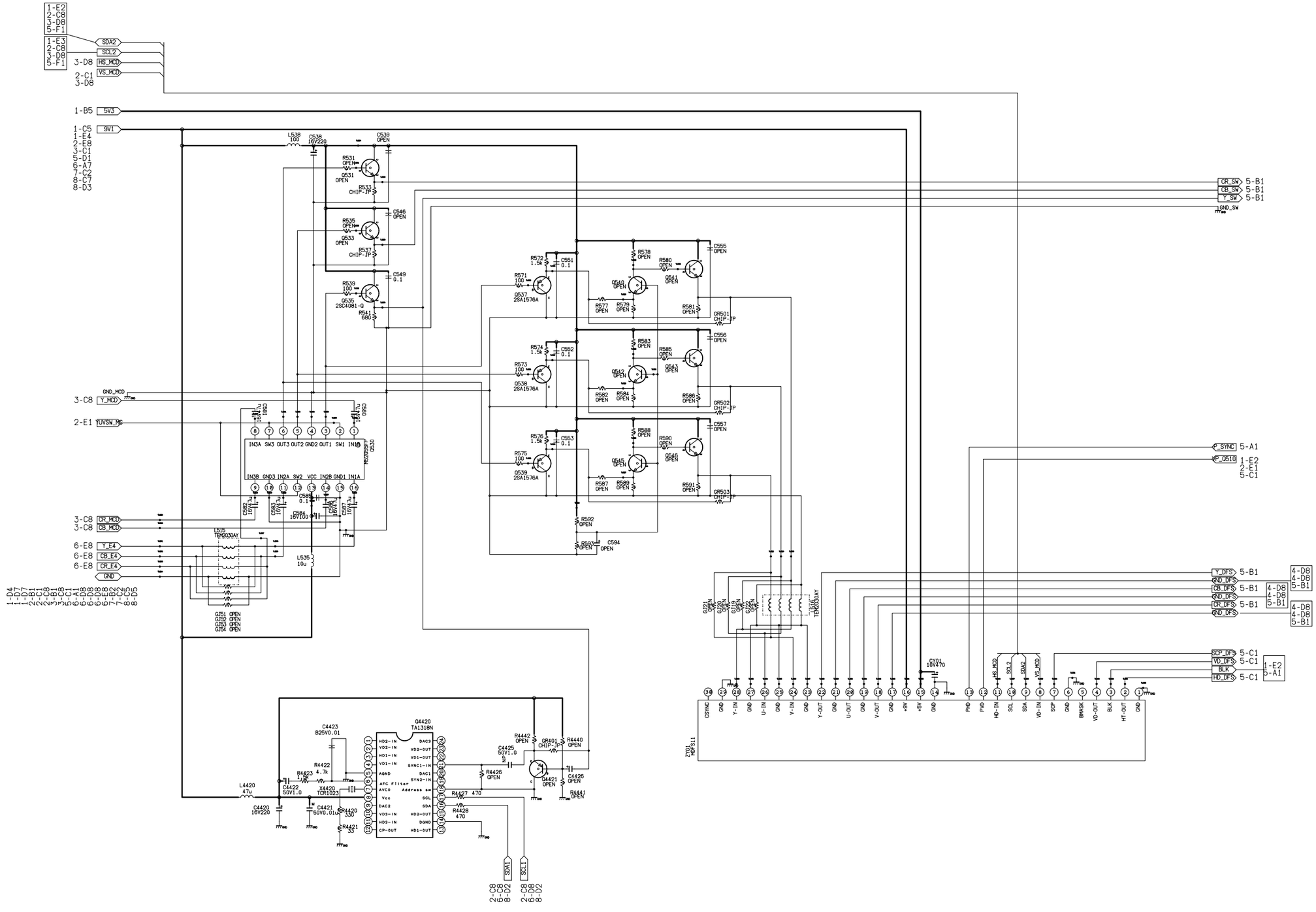
42WH36P/51WH36P
SIGNAL - μ-CON
[SHEET-2/8]


1-D4 1-D7 1-D7 2-B1 2-C1 2-C8 3-C8 4-D2 5-C1 6-A1 6-D8 6-D8 6-E8 7-B2 7-C2 8-C5 8-D5
6-C8 RD_SW
6-C8 GR_SW
6-C8 BL_SW
6-C8 YS_SW
GND
1-C5 2-A1 6-A7 7-C2 8-D2
5V2
1-C5 1-E4 2-E8 4-B1 5-D1 6-A7 7-C2 8-C7 8-D2
9V1
6-A7 8-D6
Y_AV
6-A7 GND_Y_AV
6-A7 C_AV
6-A7 GND_C_AV
L505 TNF4100AT
GJ20 CHIP JP
C514 16V47
C512 B25V0.01
C511 F0.1
D514 UDZ5.6B
D515 UDZ5.6B
D511 UDZ5.6B
AV SW GND
L513 TEM2030AY
GJ71 OPEN
GJ70 OPEN
GJ69 OPEN
GJ68 OPEN
L514 TEM2030AY
Y_MOD 4-D1
CB_MOD 4-D1
CR_MOD 4-D1
GND
TPP2 OPEN
TP03
TP01
TP02
TPG2
TEST POINT FOR SERVICE
1-D4 1-D7 1-D7 2-B1 2-C1 2-C8 3-B1 4-D2 5-C1 6-A1 6-D8 6-D8 6-E8 7-B2 7-C2 8-C5 8-D5
1-E3 2-C8 4-A1 5-F1
SCL2
SDA2
1-E2 2-C8 4-A1 5-F1
4-A1
HS_MOD
VS_MOD 2-C1 4-A1
SYNC_MAIN 2-E8
CC25 B25V0.01
LZ04 TEM2120M
RZ04 1.5K
RZ02 1K
RZ03 1K
LZ26 TEM2028AH
GJ24 OPEN
GJ23 OPEN
QZ03 2SA1576A
LZ03 OPEN
CZ46 0.01u
CZ47 OPEN
LZ01 220u
CZ48 100u
CZ33 0.1u
LZ02 220u
CZ04 0.1u
QZ01 TDA9181T
C IN
C OUT
INPSEL
OUTSEL
Y/CVBS2
Y/CVBS OUT
DGND
AGND
VDDD
Y/CVBS1
VCCA
SYS1
SC
SYS2
FSCSEL
FSC
CZ06 1000p
RZ06 1k
CZ07 0.1u
GR05 CHIP-JP
QZ04 2SA1576A
CC24 B25V0.01
CZ05 0.1u
LZ07 OPEN
CZ08 OPEN
RZ08 1k
RZ28 OPEN
QZ12 2SC4081-Q
RZ26 470
GR07 CHIP-JP
RZ29 680
RZ25 QZ05 2SA1576A
CCOMB
YCOMB
RZ09 3.3k
QZ06 2SA1576A
RZ11 100
RZ17 10k
RZ18 47K
RZ19 47K
QZ09 2SC4081T
SCP_OUT
6-C8 SCP_OUT
C_AV
GND_C_AV
Y_AV
GND_Y_AV
L511 TEM2028AH
GJ17 OPEN
R515 1k
R516 1k
Q505 2SA1576A
C522 B0.01
CC02 OPEN
CC01 OPEN
C501 F0.1
L502 F0.1
R514 1k
Q504 2SA1576A
GJ16 OPEN
R512 1k
C520 OPEN
R511 1k
L510 TEM2028AH
GJ18 OPEN
X501 16.2MHz
C516 CH11
C517 /L_0.47u
R506 27k
C526 B0.01
Q501 TB1274AF
RZ22 3.3K
RZ20 1.5K
RZ21 470
QZ10 2SA1576A
C238 F0.1
R509 15K
C527 2.2u
R507 3.9K
C521 B0.022
R517 1k
R501 6.8K
C501 F0.1
C519 4.7u
C509 F0.1
C508 F0.1
C507 F0.1
R502 2.7K
R508 6.8K
C506 B0.01
R503 100
R504 100
R505 100
SCL2 SDA2
R525 OPEN
GJ46 CHIP-JP
R523 OPEN
R524 OPEN
Q520 OPEN
C503 16V47u
R509 CHIP-JP
R510 CHIP-JP
C504 16V47u
CZ02 B0.01
C502 B0.01
L502 OPEN
Q506 2SC1815Y
R520 1/6P680
M C525 MO.1
DS06 MTZJ5.6C
GJ45 OPEN
R519 4.7k
Q507 RN1402
TO SYNC-DET
RB11 2.2k
RB10 100
QB06 2SA1576A
CB05 B2200u
CB04 16V1 330
RB04 330
Q804 2SA1576A
RB05 1M
RB06 12k
RB07 3.9k
CB06 CH660
RB08 3.9k
CB07 B3300
Q805 2SC4081-Q
RB09 10k
42WH36P/51WH36P
SIGNAL - FRONT-END
[SHEET-3/8]

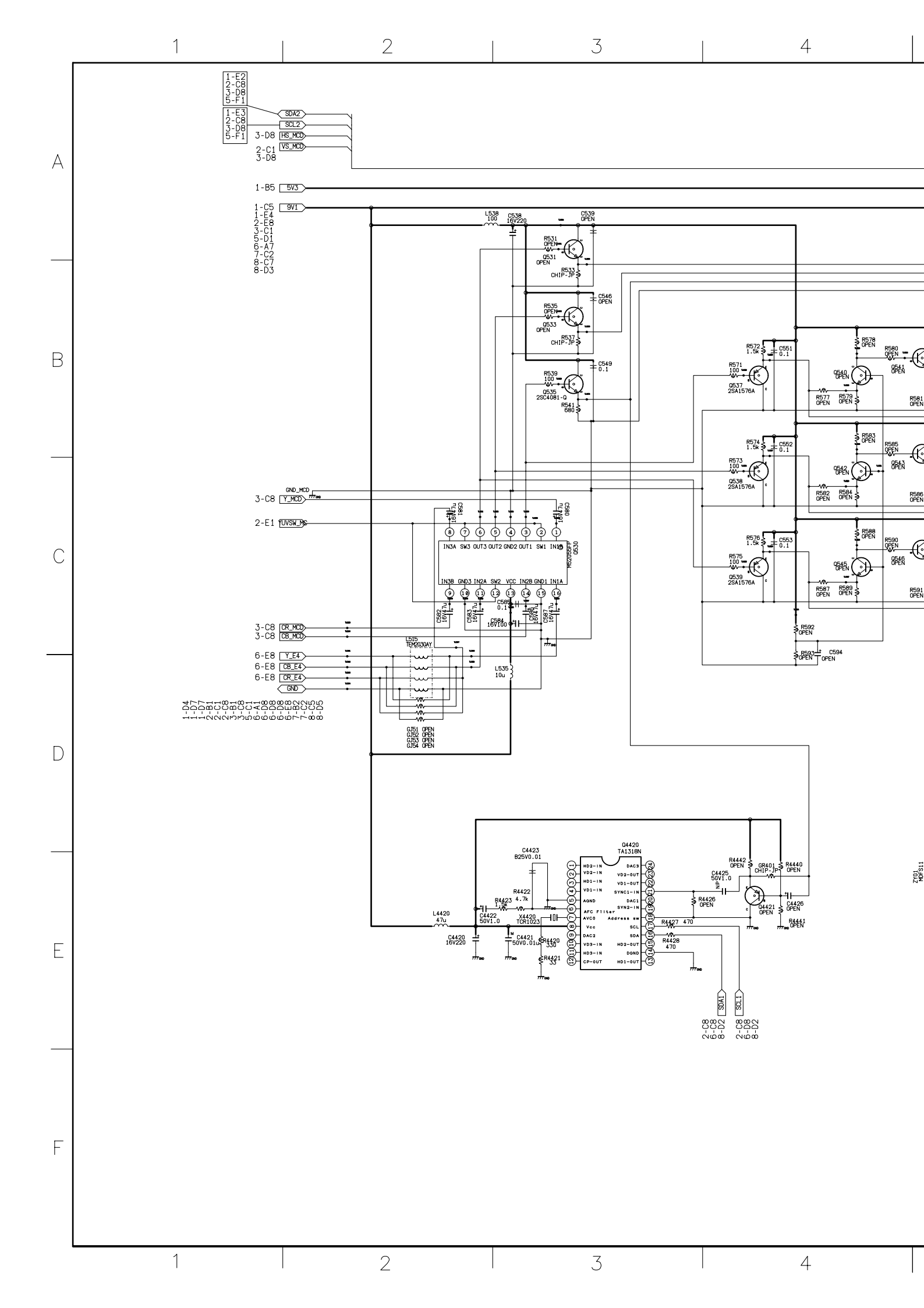

1-D4
1-D7
1-D7
2-B1
2-C1
2-C8
3-C8
4-D2
5-C1
6-A1
6-D8
6-D8
6-D8
6-E8
7-B2
7-C2
8-C5
8-D5
6-C8 RD_SW
6-C8 GR_SW
6-C8 BL_SW
6-C8 YS_SW
GND
1-C5
2-A1
6-A7
7-C2
8-D2
5V2
5V2
LZ04
TEM2120M
CC25
B25V0.01
1-C5
1-E4
2-E8
4-B1
5-D1
6-A7
7-C2
8-C7
8-D2
9V1
9V1
6-A7
8-D6
Y_AV
6-A7 GND_Y_AV
6-A7 C_AV
6-A7 GND_C_AV
LZ05
TEM2028AH
GJ24
OPEN
Y_AV
GND_Y_AV
GJ23
OPEN
RZ02
1K
RZ03
1K
QZ03
2SA1576A
RZ04
1.5K
CZ46
0.01u
LZ03
OPEN
CC23
OPEN
LZ01
220u
CZ47
100u
CZ03
0.1u
LZ02
220u
CZ04
0.1u
QZ01
TDA9181T
C IN
C OUT
INPSEL
OUTSEL
Y/CVBS2
Y/CVBS OUT
DGND
AGND
VDDD
Y/CVBS1
VCCA
SYS1
SC
SYS2
FSCSEL
FSC
CZ06
1000p
RZ06
1k
CZ07
0.1u
GR05
CHIP-1P
QZ04
2SA1576A
CC24
B25V0.01
CZ05
0.1u
RZ08
1k
LZ07
OPEN
CZ08
OPEN
RZ28
OPEN
QZ12
2SC4081-Q
YCOMB
GR07
CHIP-1P
RZ26
470
RZ29
680
QZ05
2SA1576A
CCOMB
RZ09
3.3k
QZ06
2SA1576A
RZ11
100
RZ17
10k
RZ18
4.7K
RZ19
47K
QZ09
2SC4081T
L511
TEM2028AH
GJ17
OPEN
C_AV
GND_C_AV
Y_AV
GND_Y_AV
L510
TEM2028AH
6-C8 SCP_OUT
SCP_OUT

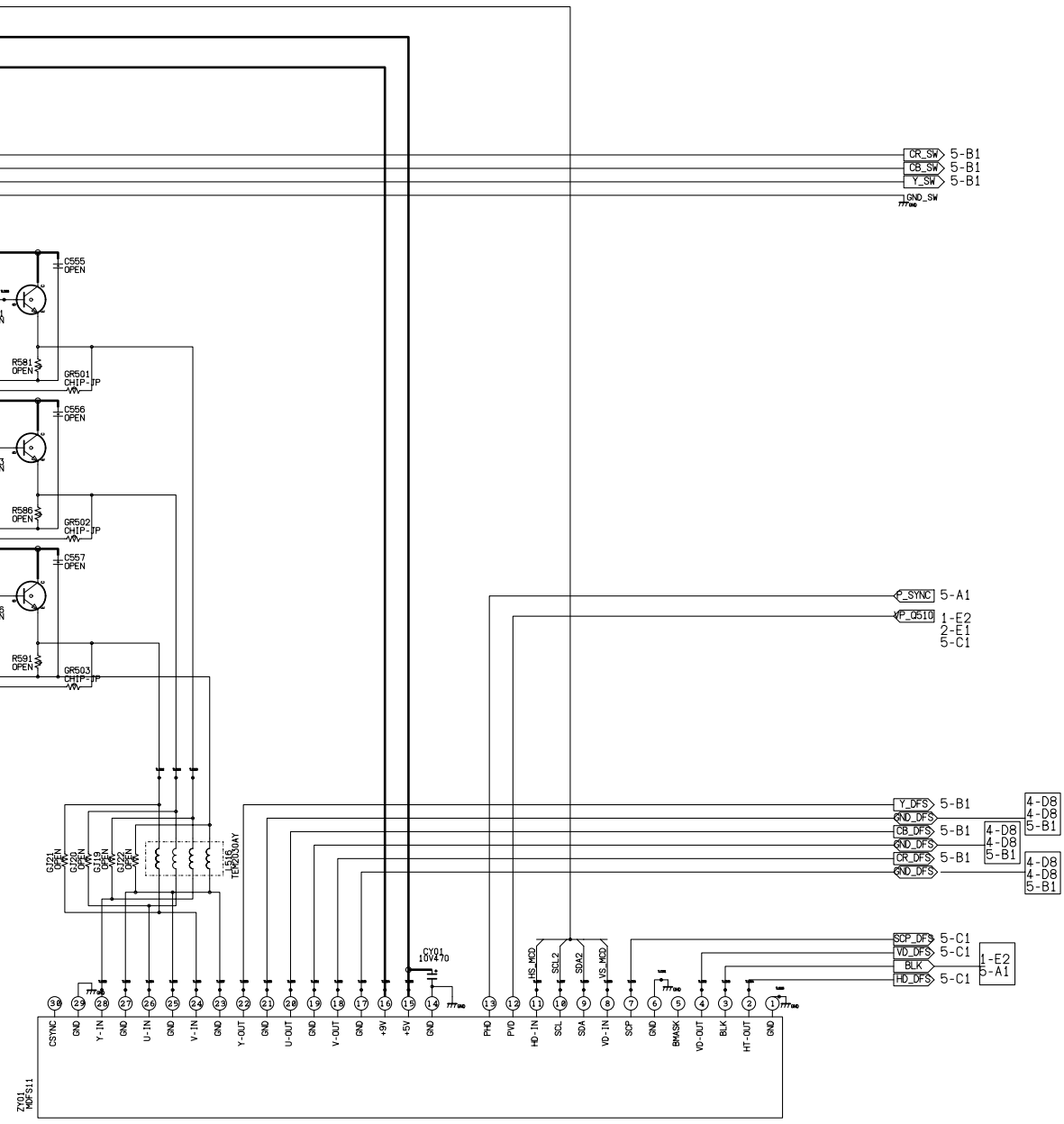


42WH36P/51WH36P
SIGNAL - FRONT-END
[SHEET-3/8]

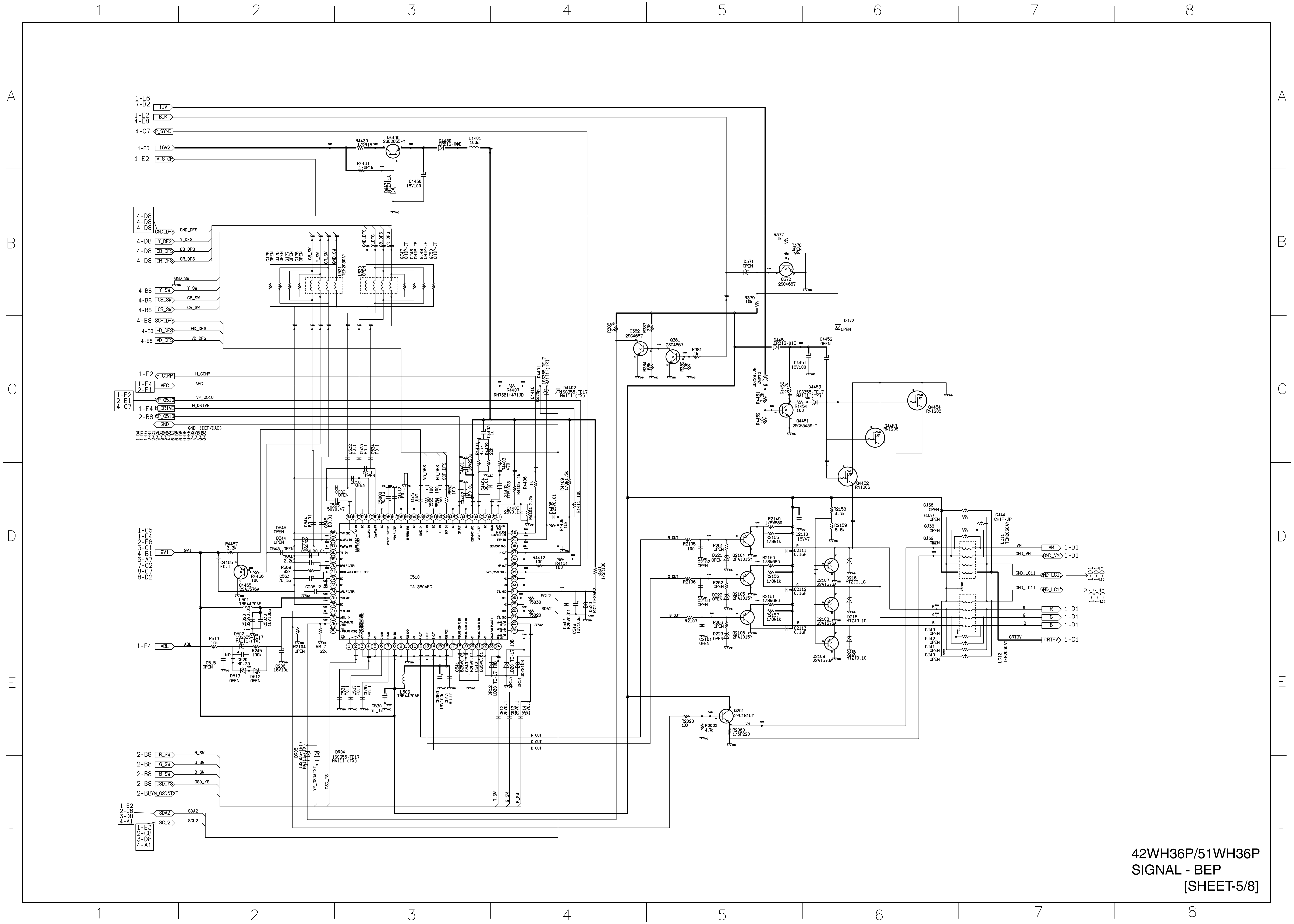


42WH36P/51WH36P
SIGNAL - UPCON
[SHEET-4/8]

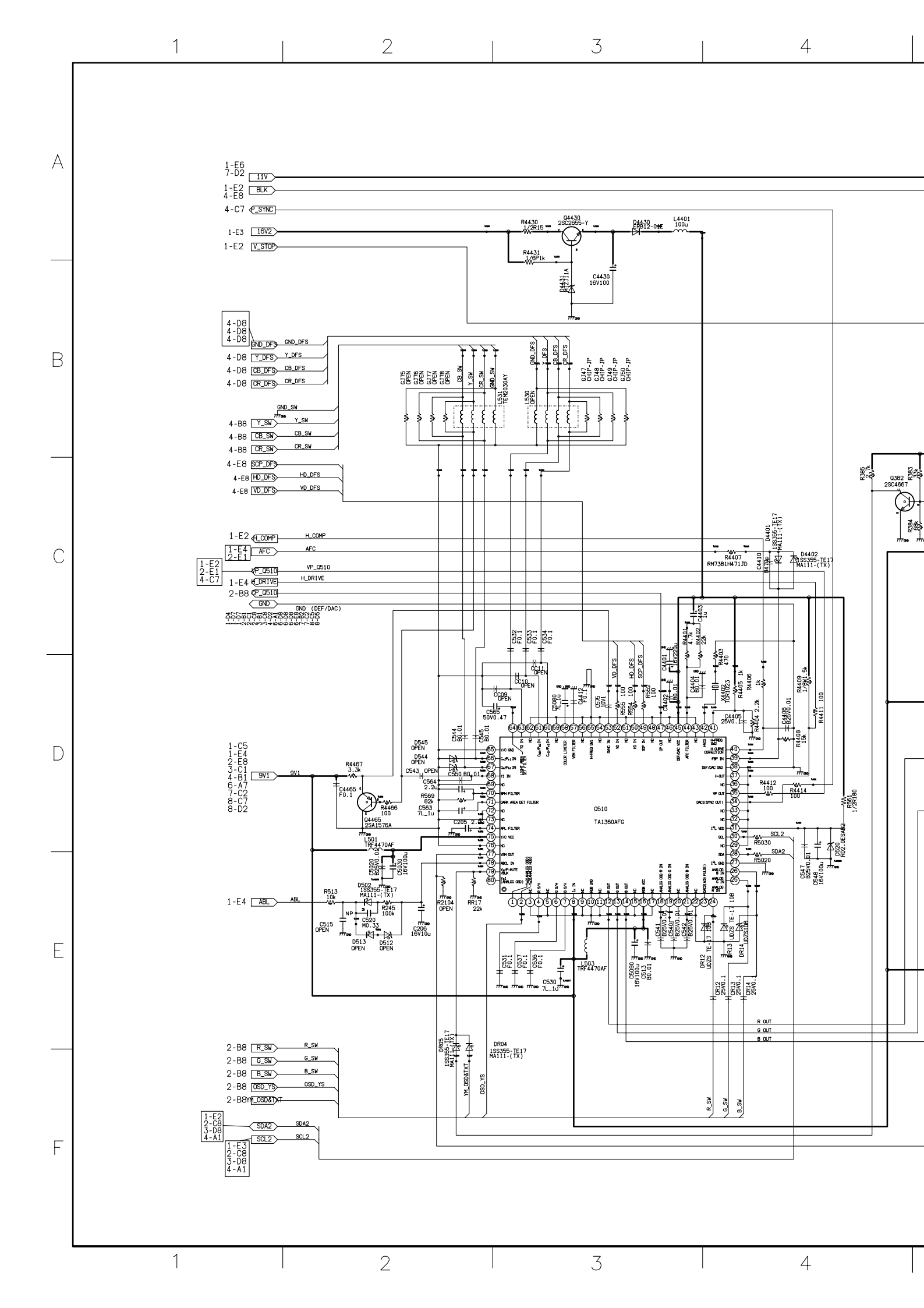

1-E2
2-C8
3-D8
5-F1
1-E3
2-C8
3-D8
5-F1
SDA2
SCL2
3-D8 HS_MCD
VS_MCD
2-C1
3-D8
1-B5 5V3
1-C5 9V1
1-E4
2-E8
3-C1
5-D1
6-A7
7-C2
8-C7
8-D3
L538 100
C538 16V220
C539 OPEN
R531 OPEN
Q531 OPEN
R533 CHIP-JP
C546 OPEN
R535 OPEN
Q533 OPEN
R537 CHIP-JP
C549 0.1
R539 100
Q535 2SC4081-Q
R541 680
R572 1.5k
C551 0.1
R571 100
Q537 2SA1576A
R578 OPEN
R580 OPEN
Q541 OPEN
Q540 OPEN
R577 OPEN
R579 OPEN
R581 OPEN
R574 1.5k
C552 0.1
R573 100
Q538 2SA1576A
R583 OPEN
R585 OPEN
Q543 OPEN
Q542 OPEN
R582 OPEN
R584 OPEN
R586 OPEN
R576 1.5k
C553 0.1
R575 100
Q539 2SA1576A
R588 OPEN
R590 OPEN
Q546 OPEN
Q545 OPEN
R587 OPEN
R589 OPEN
R591 OPEN
R592 OPEN
R593 OPEN
C594 OPEN
GND_MCD
3-C8 Y_MCD
2-E1 YUVSW_MC
C581 16V4.7u
C580 16V4.7u
IN3A SW3 OUT3 OUT2 GND2 OUT1 SW1 IN1A
M52076SP
Q530
IN3B GND3 IN2A SW2 VCC IN2B GND1 IN1A
C582 16V4.7u
C583 16V4.7u
C584 16V100
C585 0.1
C586 16V4.7u
C587 16V4.7u
3-C8 CR_MCD
3-C8 CB_MCD
L515 TEM2030AY
6-E8 Y_E4
6-E8 CB_E4
6-E8 CR_E4
GND
L535 10u
GJ51 OPEN
GJ52 OPEN
GJ53 OPEN
GJ54 OPEN
1-D4
1-D7
1-E7
2-B1
2-C1
2-C8
3-B1
3-C8
5-C1
6-A1
6-D8
6-D8
6-E8
6-E8
7-B2
7-C2
8-C5
8-D5
C4423 B25V0.01
Q4420 TA1318N
R4422 4.7k
R4423 1.5k
C4422 50V1.0
X4420 TCR1023
L4420 47u
C4420 16V220
C4421 50V0.01
R4420 330
R4421 33
HD2-IN
VD2-IN
HD1-IN
VD1-IN
AGND
AFC Filter
AVCO
Vcc
DAC2
VD3-IN
HD3-IN
CP-OUT
DAC3
VD2-OUT
VD1-OUT
SYNC1-IN
DAC1
SYN2-IN
Address sw
SCL
SDA
HD2-OUT
DGND
HD1-OUT
R4442 OPEN
GR401 CHIP-JP
R4440 OPEN
C4425 50V1.0
R4426 OPEN
Q4421 OPEN
C4426 OPEN
R4441 OPEN
R4427 470
R4428 470
SDA1
SCL1
2-C8 6-B8 8-D2
2-C8 6-B8 8-D2

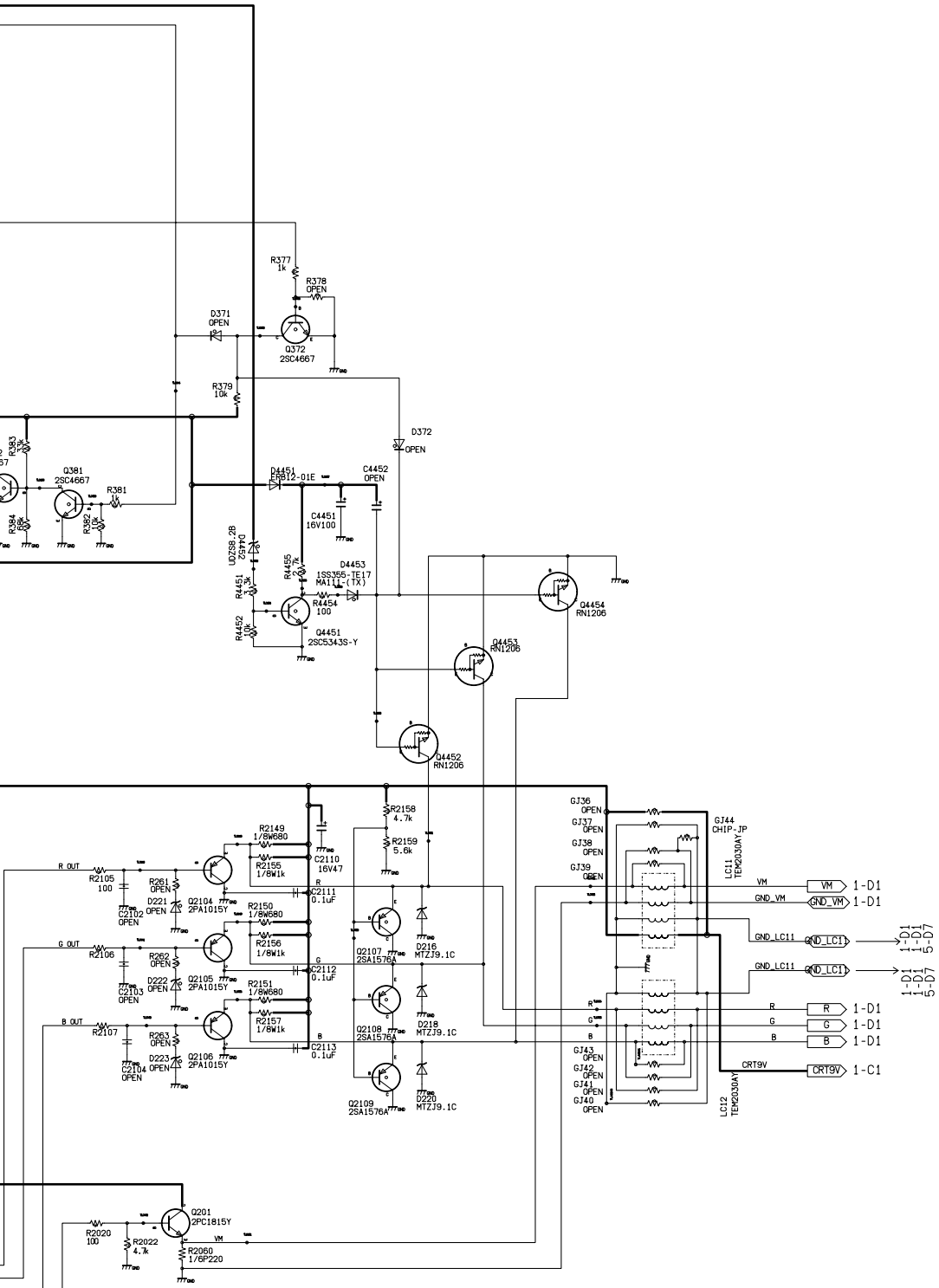


42WH36P/51WH36P
SIGNAL - UPCON
[SHEET-4/8]

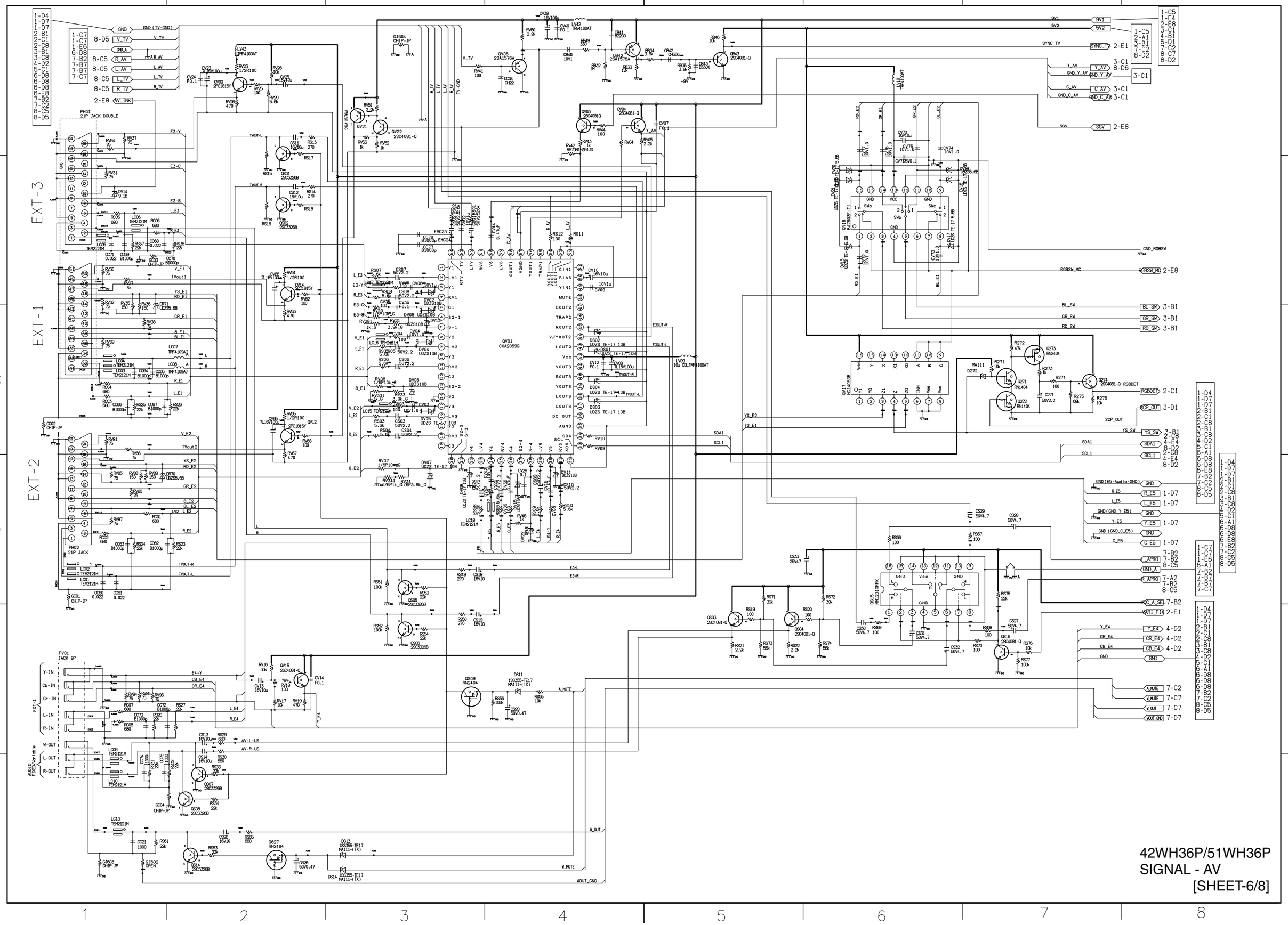


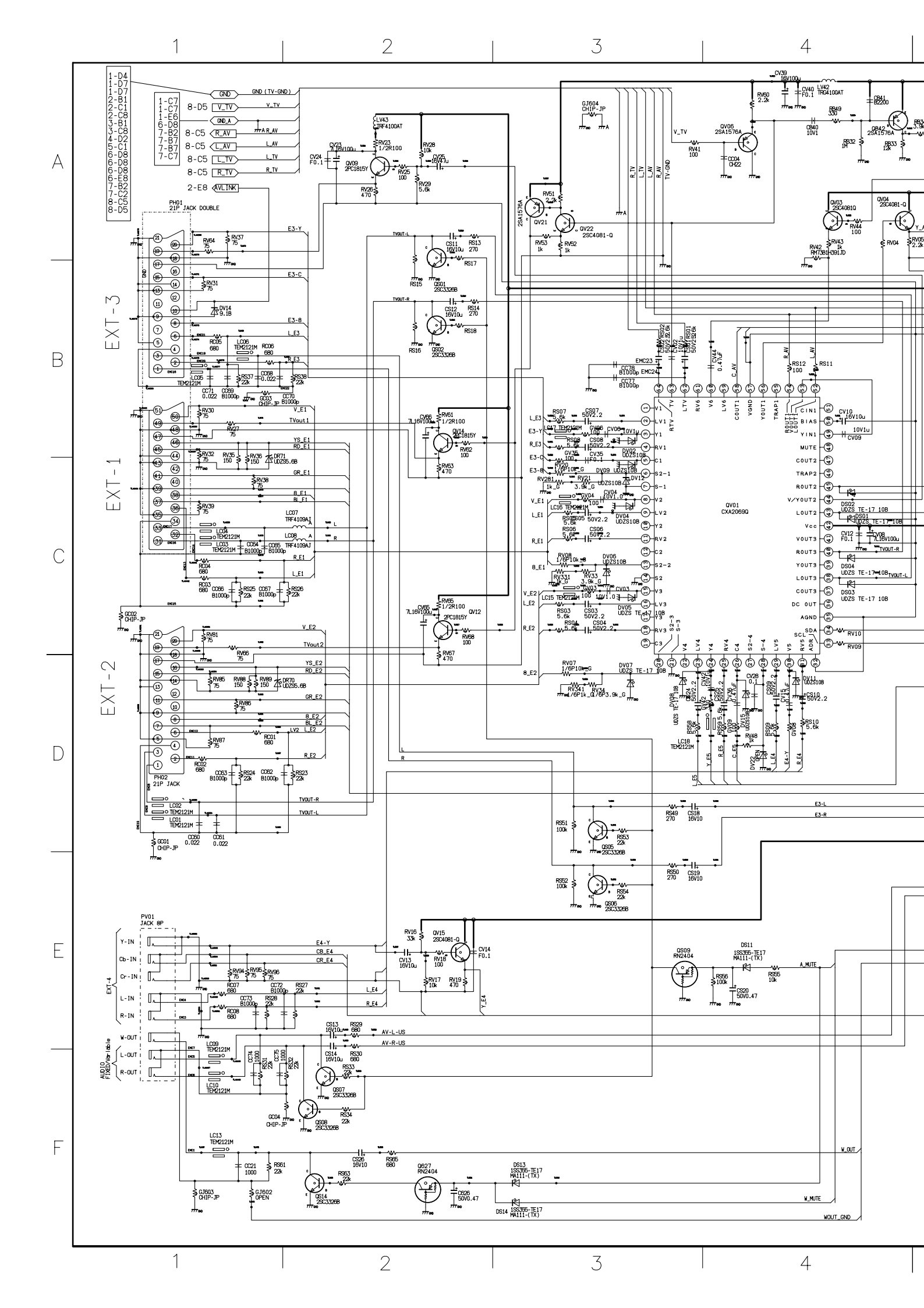
42WH36P/51WH36P
SIGNAL - BEP
[SHEET-5/8]

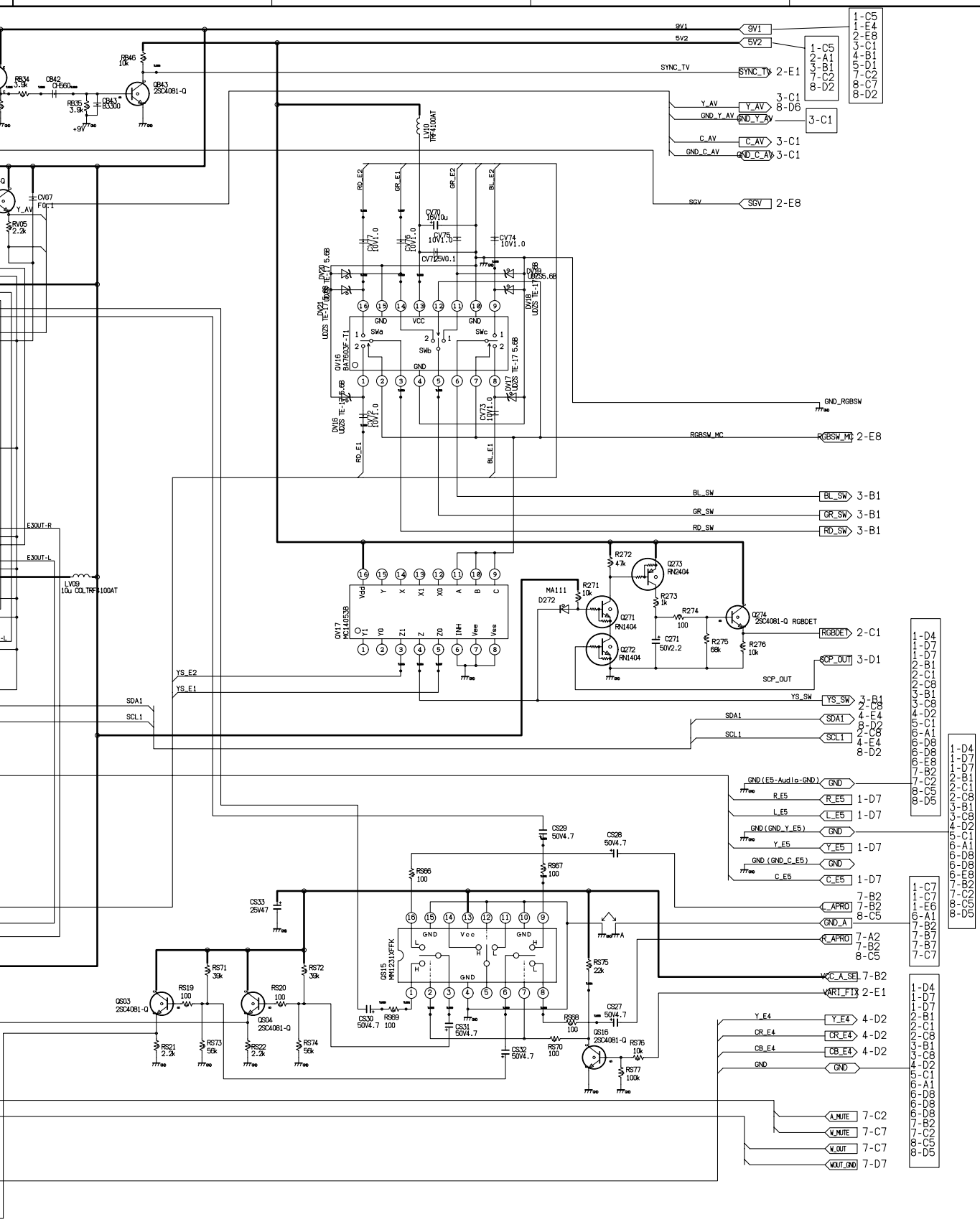

11V
BLK
P_SYNC
16V2
V_STOP
GND_DFS
Y_DFS
CB_DFS
CR_DFS
GND_SW
Y_SW
CB_SW
CR_SW
SCP_DFS
HD_DFS
VD_DFS
H_COMP
AFC
VP_Q510
H_DRIVE
P_Q510
GND
GND (DEF/DAC)
9V1
ABL
R_SW
G_SW
B_SW
OSD_YS
SYM_OSD&TXT
SDA2
SCL2
R_OUT
G_OUT
B_OUT
Q510
TA1360AFG
L501
TRF4470AF
L503
TRF4470AF
Q4430
2SC2655-Y
Q4465
2SA1576A
Q382
2SC4667
D4402
1SS355-TE17
MA111-(TX)
D502
1SS355-TE17
MA111-(TX)
DR04
1SS355-TE17
MA111-(TX)
DR05
1SS355-TE17
MA111-(TX)



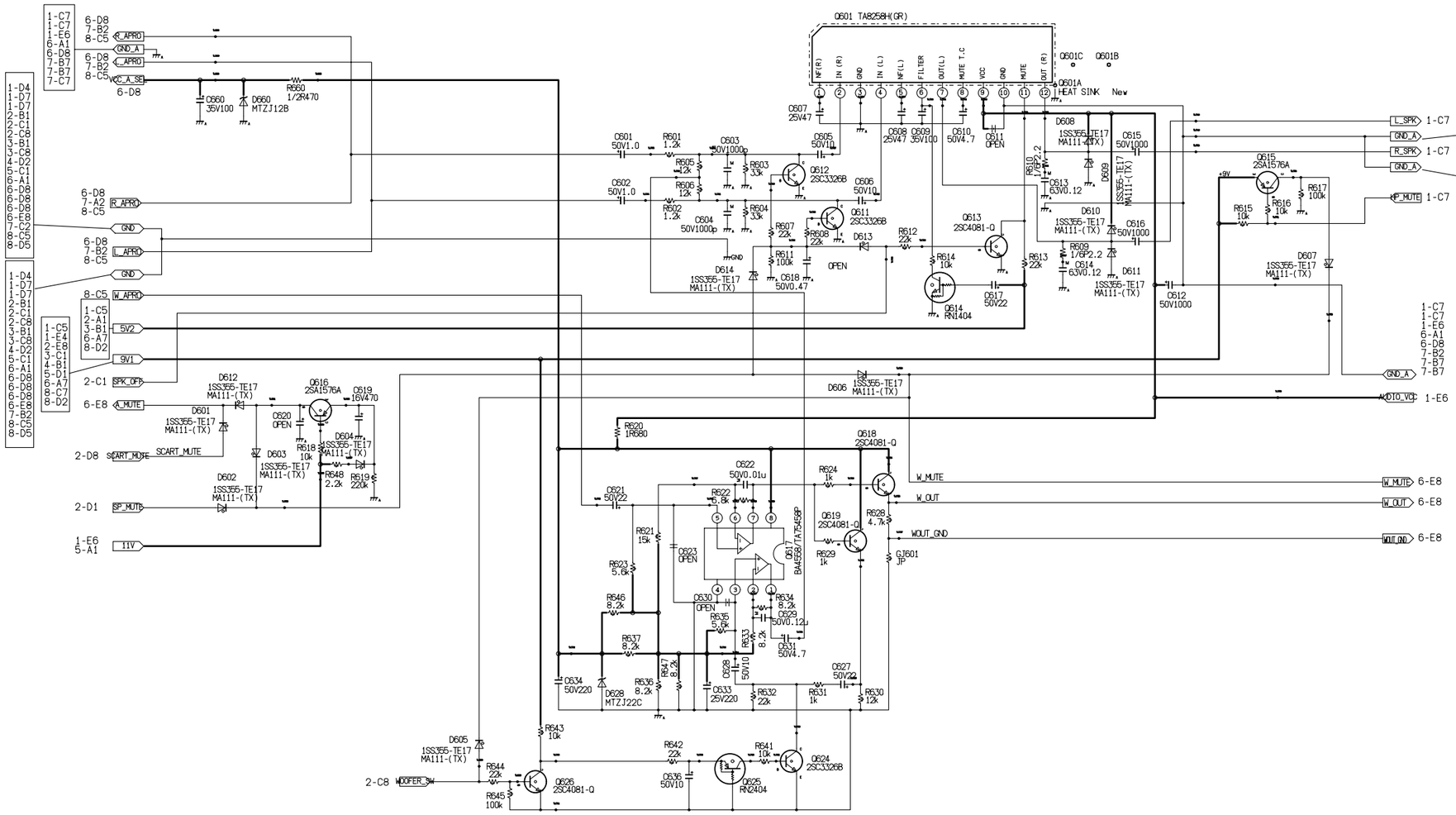
42WH36P/51WH36P
SIGNAL - BEP
[SHEET-5/8]


EXT-3
EXT-1
EXT-2
EXT-4
PH01 21P JACK DOUBLE
PH02 21P JACK
PV01 JACK 8P
QV01 CXA2069Q
GND (TV-GND)
V_TV
GND_A
R_AV
L_AV
L_TV
R_TV
AVLINK
SV1
5V2
SYNC_TV
Y_AV
GND_Y_AV
C_AV
GND_C_AV
SGV
GND_RGBSW
RGBSW_MC
BL_SW
GR_SW
RD_SW
SCP_OUT
YS_SW
SDA1
SCL1
GND(E5-Audio-GND)
GND(GND_Y_E5)
GND(GND_C_E5)
A_PRO
VCC_A_SEL
VARI_FIX
A_MUTE
M_MUTE
M_OUT
MOUT_GND
RGBDE
Y-IN
Cb-IN
Cr-IN
L-IN
R-IN
W-OUT
L-OUT
R-OUT
AUDIO FIXED/Variable
AV-L-US
AV-R-US
W_OUT
W_MUTE
WOUT_GND
42WH36P/51WH36P
SIGNAL - AV
[SHEET-6/8]

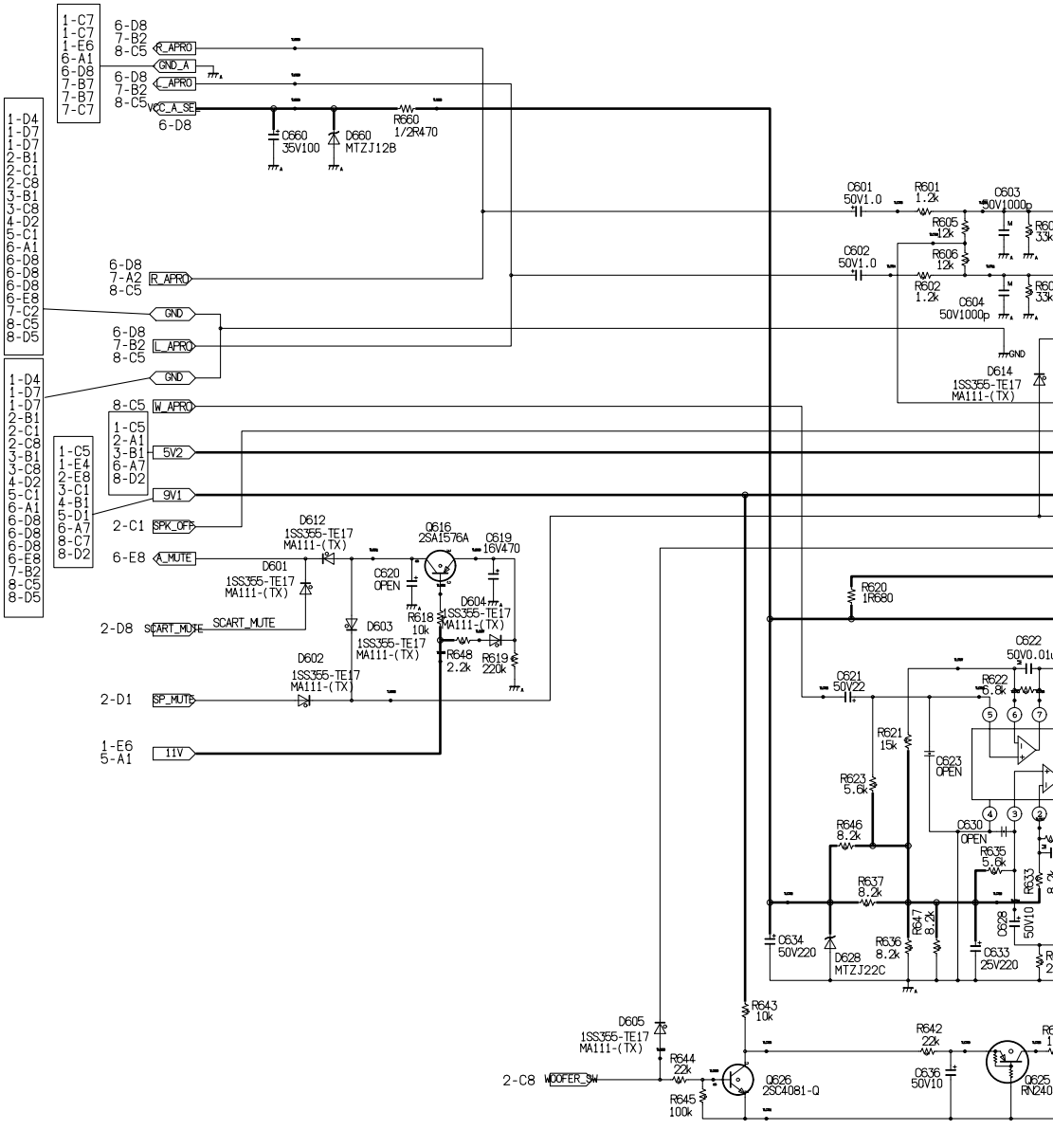

EXT-1
EXT-2
EXT-3
EXT-4
PH01
21P JACK DOUBLE
PH02
21P JACK
PV01
JACK 8P
QV01
CXA2069Q
QV02
2SA1576A
QV03
2SC4081Q
QV04
2SC4081-Q
QV06
2SA1576A
QV21
QV22
2SC4081-Q
GND
GND (TV-GND)
V_TV
GND_A
R_AV
L_AV
L_TV
R_TV
AVLINK
Y-IN
Cb-IN
Cr-IN
L-IN
R-IN
W-OUT
L-OUT
R-OUT
AUDIO FIXED/Variable
E3-Y
E3-C
E3-B
L_E3
R_E3
V_E1
TVout1
YS_E1
RD_E1
GR_E1
B_E1
BL_E1
L_E1
R_E1
V_E2
TVout2
YS_E2
RD_E2
GR_E2
B_E2
BL_E2
L_E2
R_E2
TVOUT-R
TVOUT-L
E4-Y
CB_E4
CR_E4
L_E4
R_E4
Y_E4
AV-L-US
AV-R-US
A_MUTE
W_MUTE
W_OUT
WOUT_GND
L
R
E3-L
E3-R

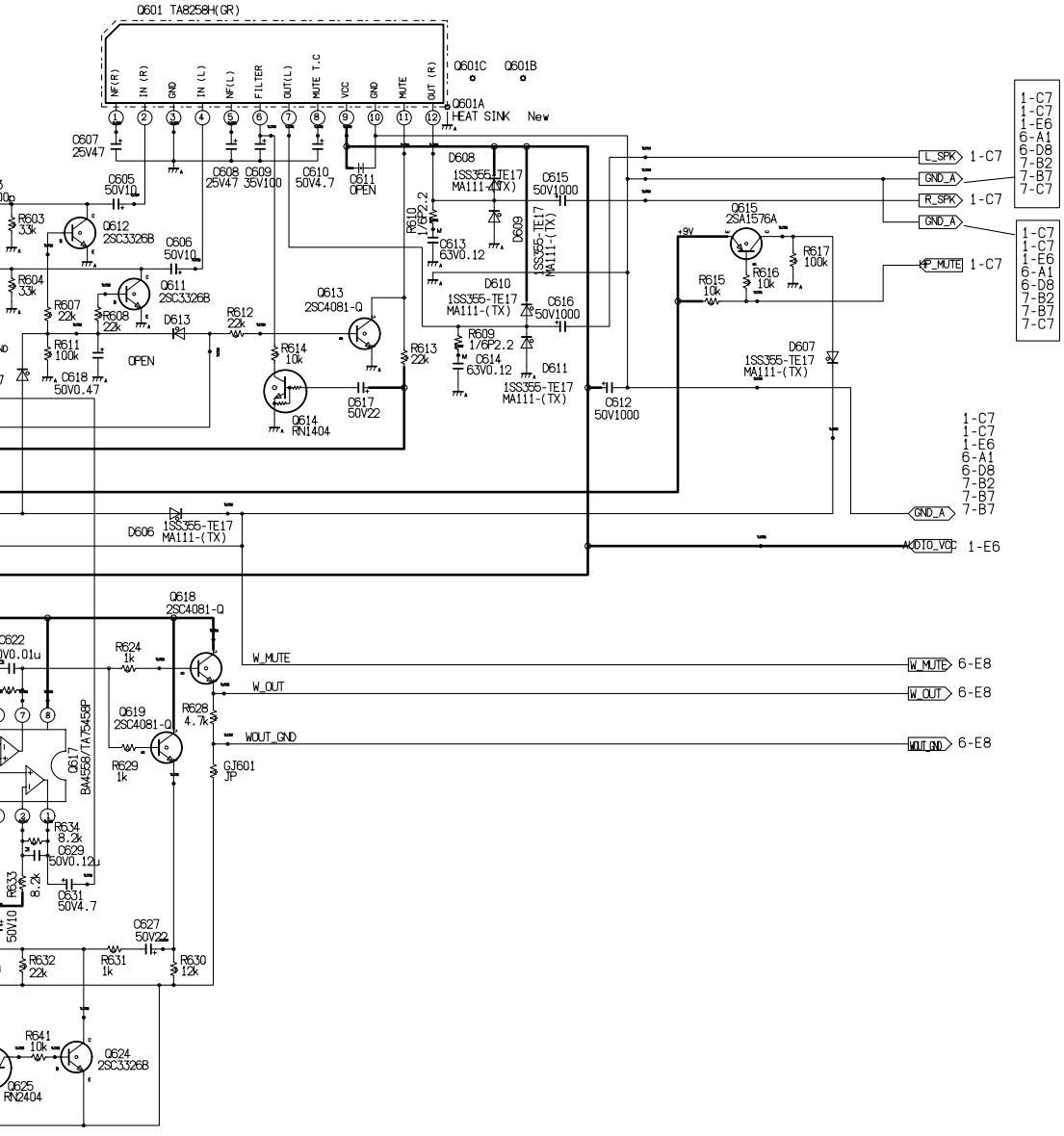


42WH36P/51WH36P
SIGNAL - AV
[SHEET-6/8]

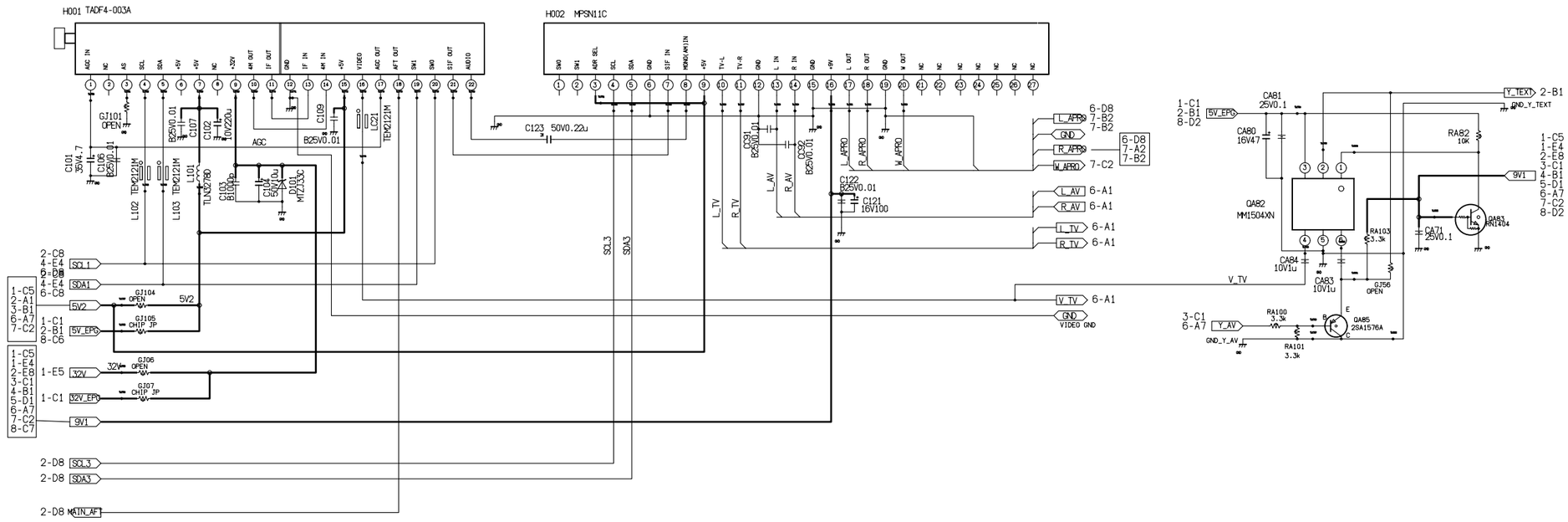


42WH36P/51WH36P
SIGNAL - Audio
[SHEET-7/8]

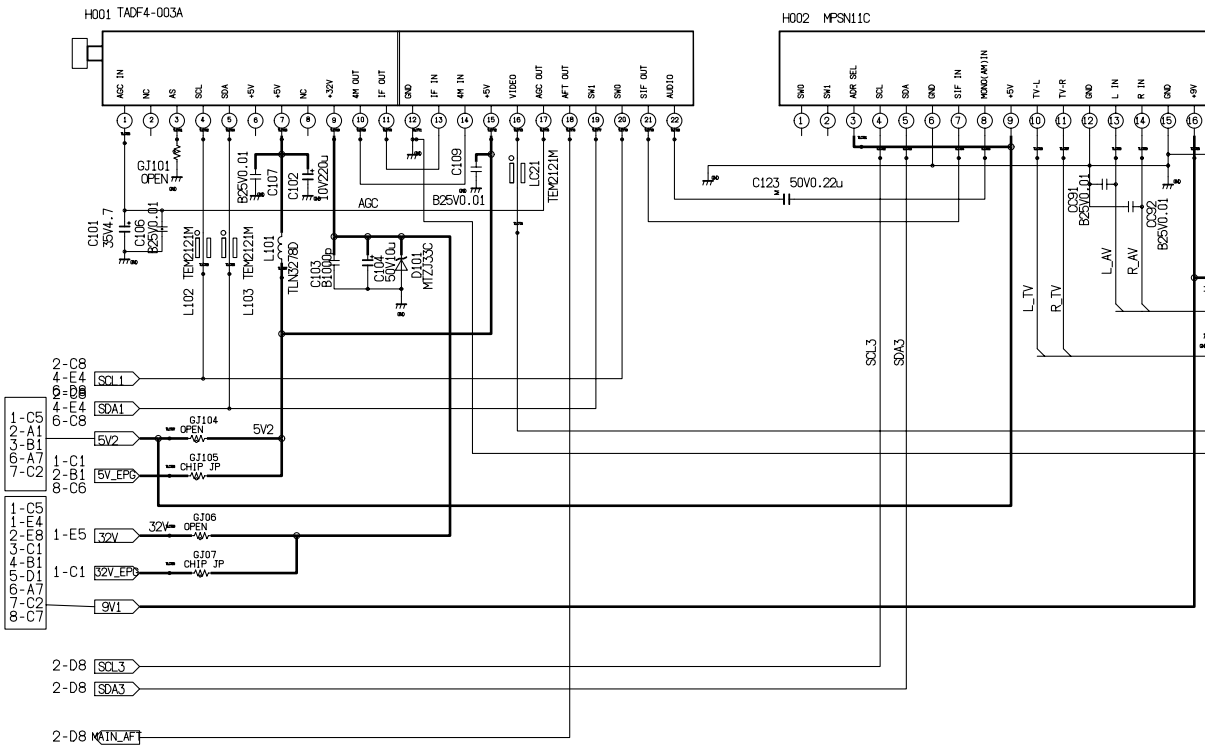

R_APRO
GND_A
L_APRO
VCC_A_SE
C660 35V100
D660 MTZJ12B
R660 1/2R470
C601 50V1.0
R601 1.2k
C603 50V1000p
R605 12k
R606 12k
C602 50V1.0
R602 1.2k
C604 50V1000p
GND
D614 1SS355-TE17 MA111-(TX)
W_APRO
5V2
9V1
SPK_OFF
A_MUTE
SCART_MUTE
D612 1SS355-TE17 MA111-(TX)
Q616 2SA1576A
C619 16V470
D601 1SS355-TE17 MA111-(TX)
C620 OPEN
D604 1SS355-TE17 MA111-(TX)
R618 10k
D603 1SS355-TE17 MA111-(TX)
R648 2.2k
R619 220k
D602 1SS355-TE17 MA111-(TX)
SP_MUTE
11V
R620 1R680
C622 50V0.01
C621 50V22
R622 5.6k
R621 15k
C623 OPEN
R623 5.6k
R646 8.2k
C630 OPEN
R635 5.6k
R637 8.2k
C634 50V220
D628 MTZJ22C
R636 8.2k
R647 8.2k
C633 25V220
C628 50V10
R643 10k
D605 1SS355-TE17 MA111-(TX)
R642 22k
R644 22k
WOOFER_SW
Q626 2SC4081-Q
R645 100k
C636 50V10
Q625 RN240

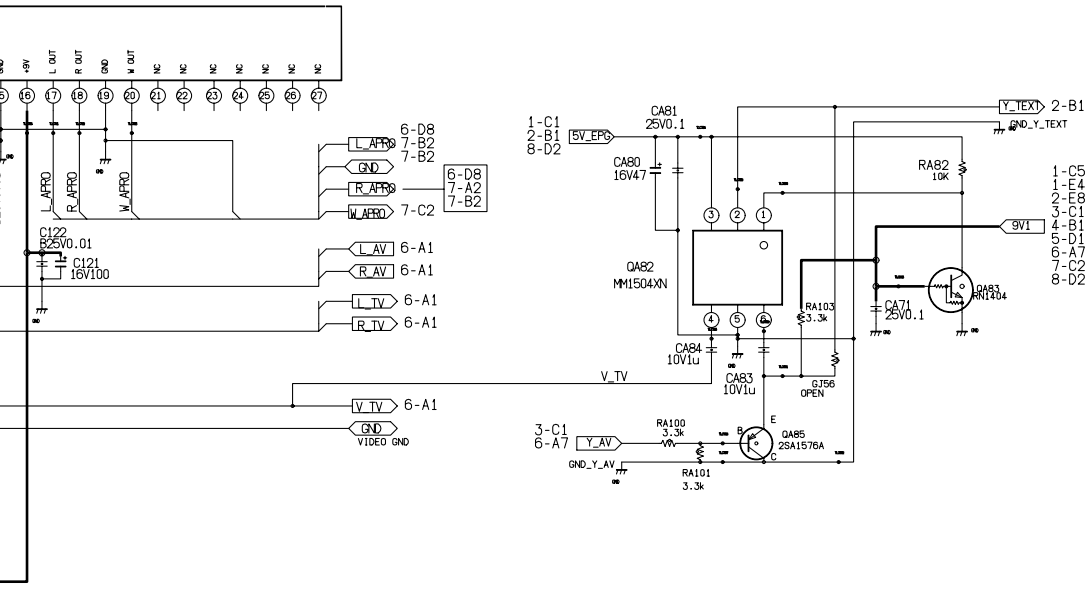


42WH36P/51WH36P
SIGNAL - Audio
[SHEET-7/8]

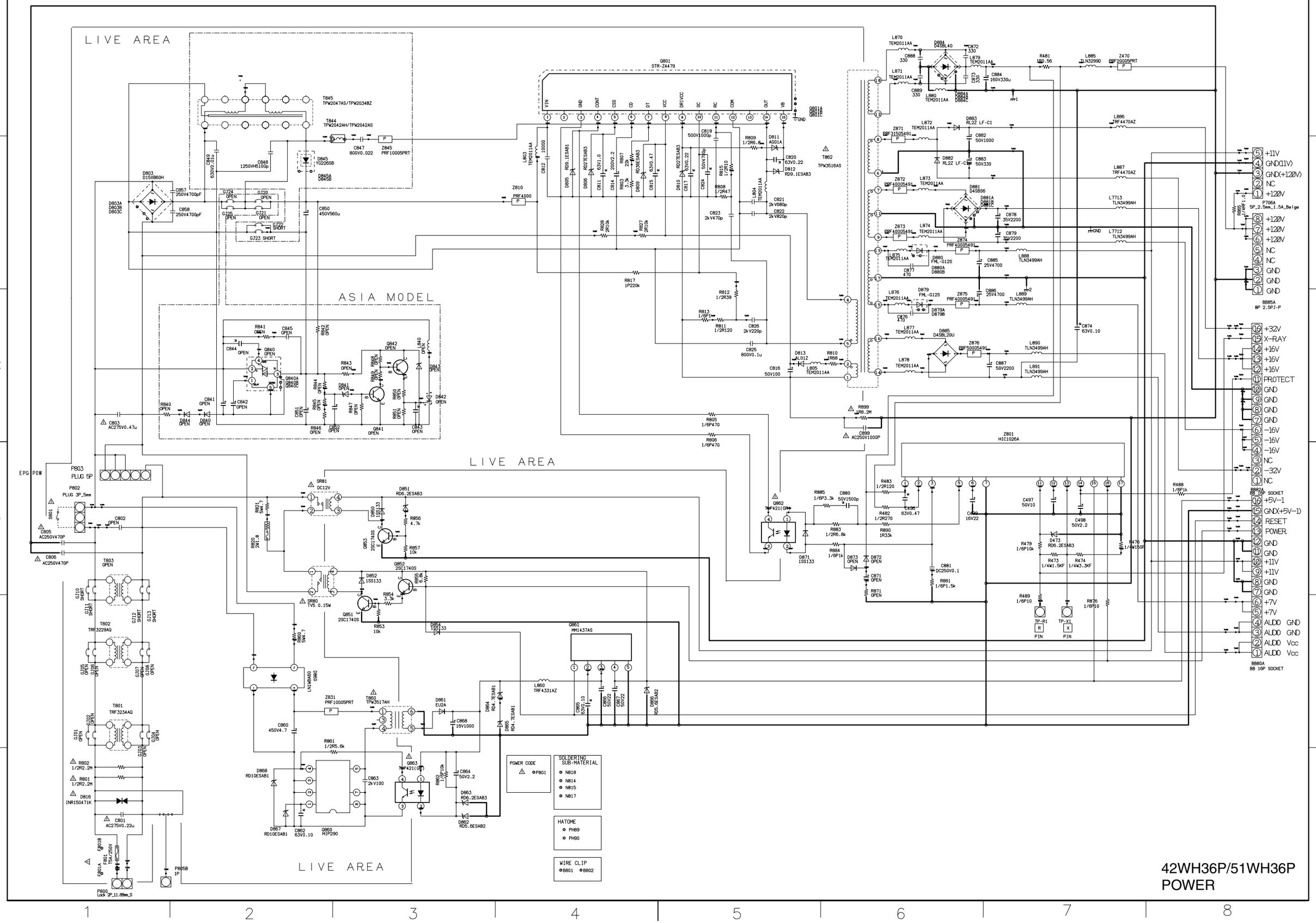


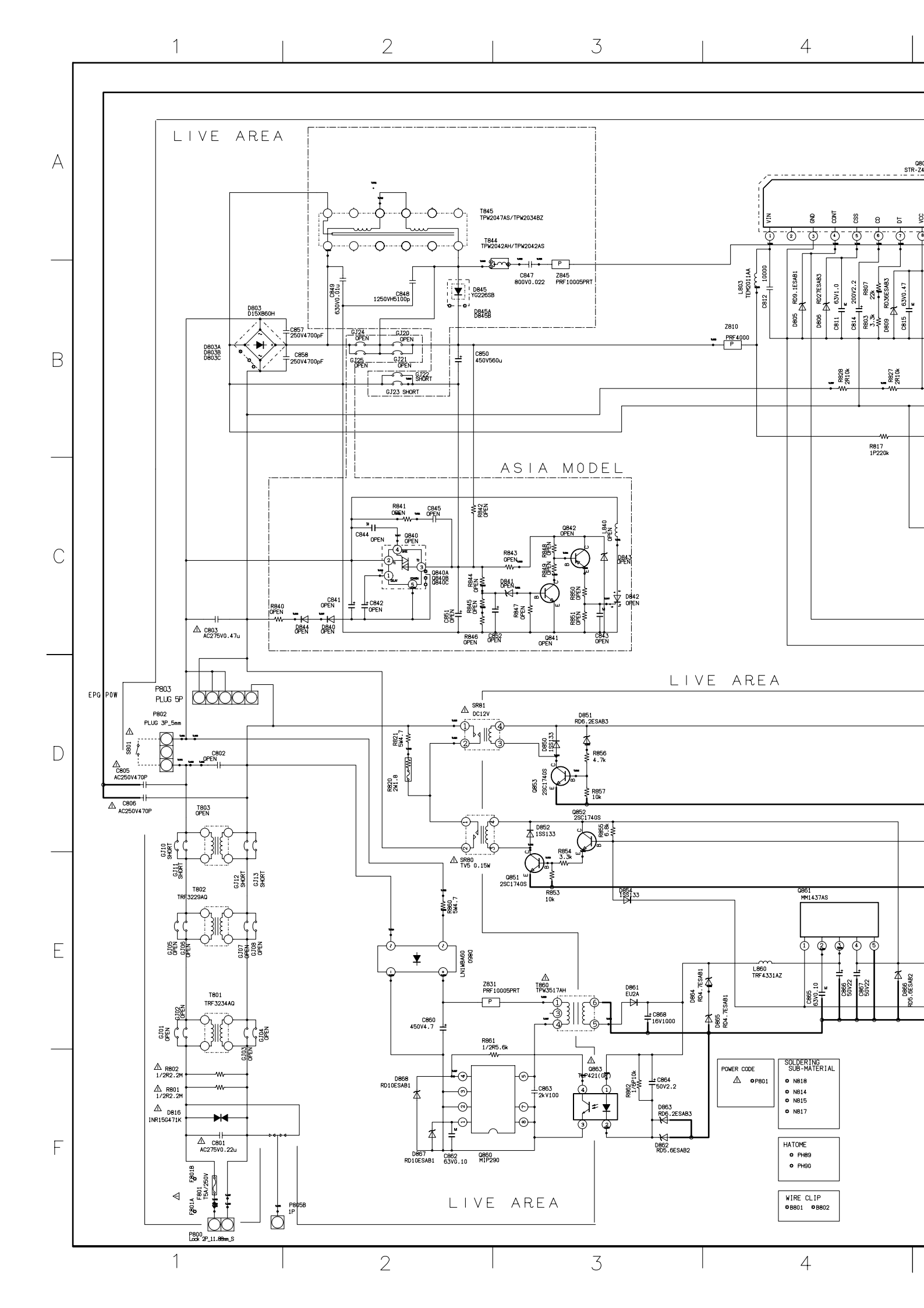
42WH36P/51WH36P
SIGNAL - IF
[SHEET-8/8]

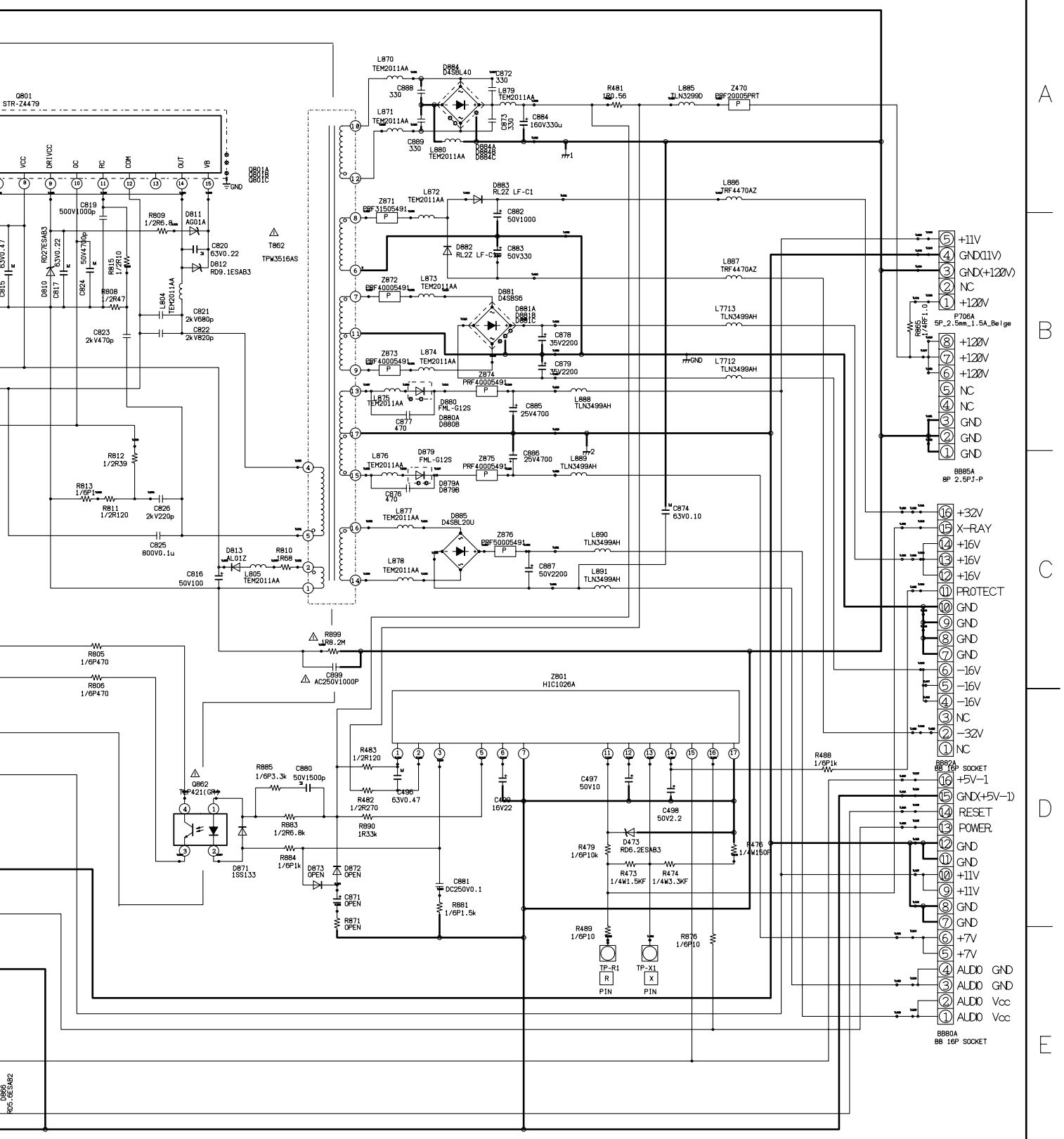

H001 TADF4-003A
H002 MPSN11C
AGC IN
NC
AS
SCL
SDA
+5V
+5V
NC
+32V
4M OUT
IF OUT
GND
IF IN
4M IN
+5V
VIDEO
AGC OUT
AFT OUT
SW1
SW0
STF OUT
AUDIO
SW0
SW1
ADR SEL
SCL
SDA
GND
STF IN
MONO(AM)IN
+5V
TV-L
TV-R
GND
L IN
R IN
GND
+9V
GJ101 OPEN
B25V0.01
C107
C102
10V220u
C109
B25V0.01
LC21
TEM2121M
C123 50V0.22u
C101 35V4.7
C106 B25V0.01
TEM2121M
L102
TEM2121M
L103
L101
TLN32780
C103 B1000p
C104 50V10u
D101 MTZJ33C
CC91 B25V0.01
CC92 B25V0.01
L_AV
R_AV
L_TV
R_TV
SCL3
SDA3
AGC
2-C8
4-E4
2-D8
4-E4
6-C8
SCL1
SDA1
1-C5
2-A1
3-B1
6-A7
7-C2
5V2
GJ104 OPEN
5V2
1-C1
2-B1
8-C6
5V_EPG
GJ105 CHIP JP
1-C5
1-E4
2-E8
3-C1
4-B1
5-D1
6-A7
7-C2
8-C7
1-E5
32V
32V
GJ06 OPEN
1-C1
32V_EPG
GJ07 CHIP JP
9V1
2-D8
SCL3
2-D8
SDA3
2-D8
MAIN_AFT



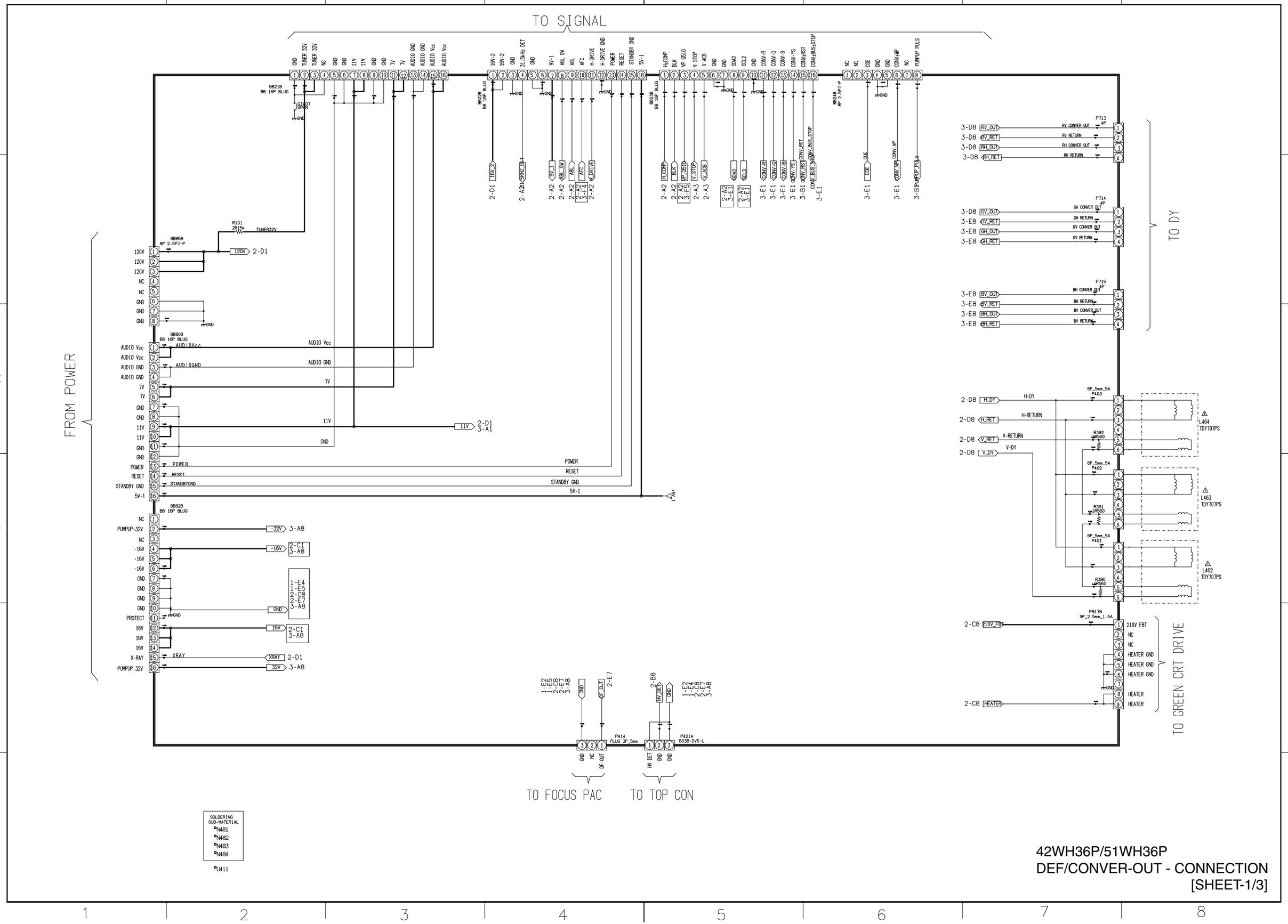
42WH36P/51WH36P
SIGNAL - IF
[SHEET-8/8]

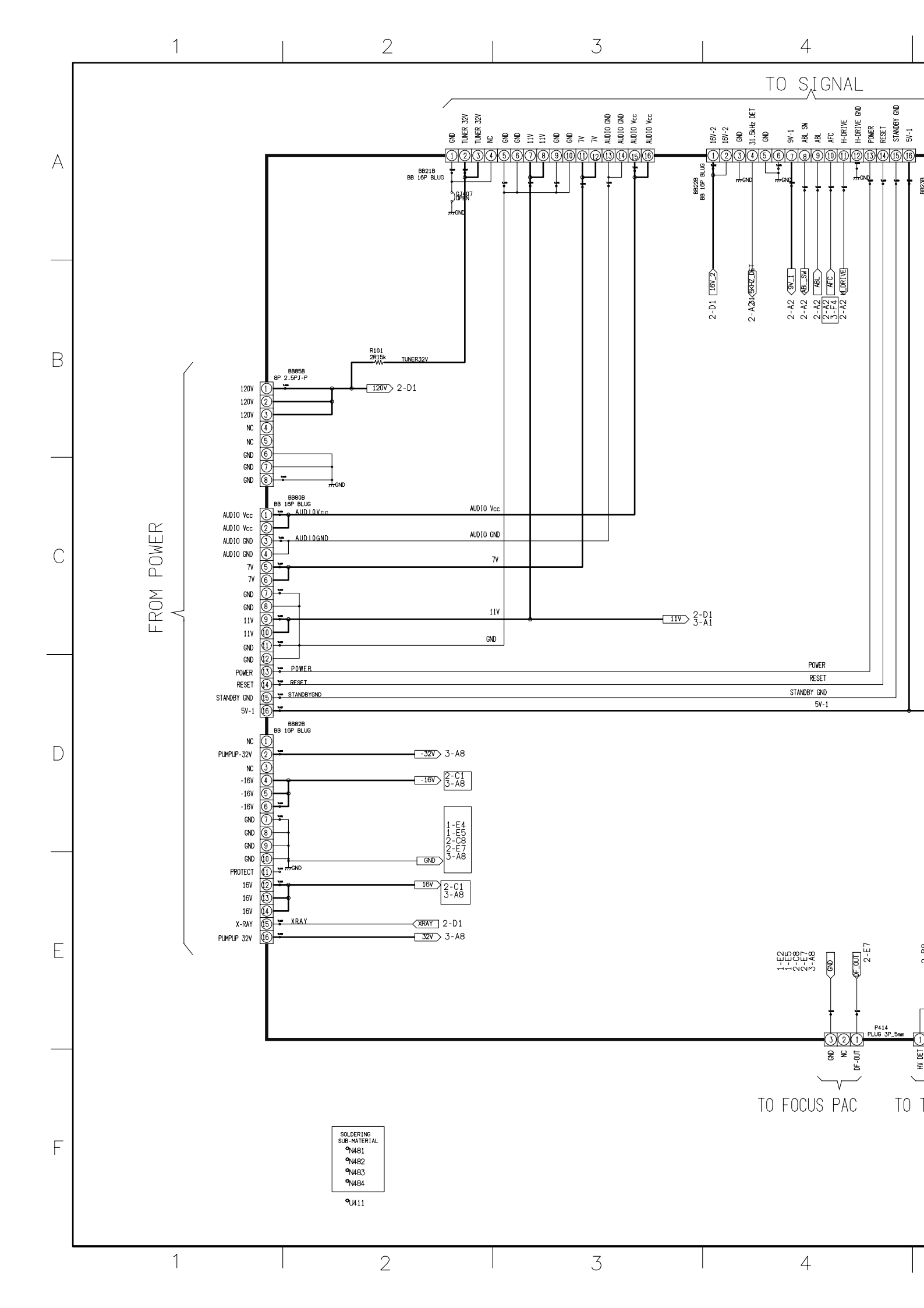

LIVE AREA
ASIA MODEL
LIVE AREA
LIVE AREA
LIVE AREA
T845 TPW2047AS/TPW2034BZ
T844 TPW2042AH/TPW2042AS
C847 800V0.022
Z845 PRF10005PRT
D845 YG226S8
D845A D845B
C849 630V0.01u
C848 1250W5100p
D803 D15XB60H
D803A D803B D803C
C857 250V4700pF
C858 250V4700pF
C850 450V560u
GJ24 OPEN
GJ20 OPEN
GJ25 OPEN
GJ21 OPEN
GJ22 SHORT
GJ23 SHORT
Q801 STR-Z4479
VIN GND CONT CSS CD DT VCC DRIVCC DC RC COM OUT VB
Q801A Q801B Q801C
GND
L803 TEM2011AA
C812 1000P
D805 RD9.1ESB1
D806 RD27ESAB3
C811 63V1.0
C814 200V2.2
R807 2R2
R803 2R2
D809 RD36ESB3
C815 63V0.47
D810 RD27ESAB3
C817 63V0.22
C824 50V470P
R815 2R2
D807 RD9.1ESB1
C819 500V1000p
R809 1/2R6.8
D811 AG01A
C820 63V0.22
D812 RD9.1ESAB3
T862 TPW3516AS
Z810 PRF4000
R808 1/2R47
L804 TEM2011AA
C821 2kV680p
C822 2kV820p
C823 2kV470p
R828 2R10k
R827 2R10k
R817 1P220k
R812 1/2W39
R813 1/6P1
R811 1/2R120
C826 2kV220p
C825 800V0.1u
C816 50V100
D813 AL01Z
R810 1R68
L805 TEM2011AA
R805 1/6P470
R806 1/6P470
R899 1R8.2M
C899 AC250V1000P
L870 TEM2011AA
D884 D45BL40
C872 330
C888 330
L879 TEM2011AA
L871 TEM2011AA
C873 330
C884 160V330u
C889 330
L880 TEM2011AA
C884A C884B C884C
R481 1R0 56
L885 TLN3299D
Z470 PRF20005PRT
L886 TRF4470AZ
L872 TEM2011AA
Z871 PRF31505491
D883 RL2Z LF-C1
C882 50V1000
D882 RL2Z LF-C1
C883 50V330
L887 TRF4470AZ
L873 TEM2011AA
Z872 PRF40005491
D881 D4SB86
D881A D881B D881C
C878 35V2200
L7713 TLN3499AH
L874 TEM2011AA
Z873 PRF40005491
C879 35V2200
L7712 TLN3499AH
Z874 PRF40005491
L875 TEM2011AA
D880 FML-G12S
D880A D880B
C877 470
C885 25V4700
L888 TLN3499AH
L876 TEM2011AA
D879 FML-G12S
D879A D879B
C876 470
Z875 PRF40005491
C886 25V4700
L889 TLN3499AH
C874 63V0.10
L877 TEM2011AA
D885 D45BL20U
Z876 PRF50005491
L890 TLN3499AH
L878 TEM2011AA
C887 50V2200
L891 TLN3499AH
Z801 HIC1026A
R885 1/6P3.3k
C880 50V1500p
R883 1/2R6.8k
R884 1/6P1k
Q862 TNP421(GR)
D871 1SS133
R483 1/2R120
R482 1/2R270
C496 63V0.47
C880 16V22
R880 1R33k
D873 OPEN
D872 OPEN
C871 OPEN
R871 OPEN
C881 DC250V0.1
R881 1/6P1.5k
C497 50V10
C498 50V2.2
D473 RD6.2ESAB3
R479 1/6P10k
R473 1/4W1.5KF
R474 1/4W3.3KF
R476 1/4W150F
R488 1/6P1k
R489 1/6P10
R876 1/6P10
TP-R1 R PIN
TP-X1 X PIN
P706A 5P_2.5mm_1.5A_Beige
R895 1.0
+11V
GND(11V)
GND(+120V)
NC
+120V
+120V
+120V
+120V
NC
NC
GND
GND
GND
B885A 8P 2.5PJ-P
+32V
X-RAY
+16V
+16V
+16V
PROTECT
GND
GND
GND
GND
−16V
−16V
−16V
NC
−32V
NC
B887A BB 16P SOCKET
+5V−1
GND(+5V−1)
RESET
POWER
GND
GND
+11V
+11V
GND
GND
+7V
+7V
AUDIO GND
AUDIO GND
AUDIO Vcc
AUDIO Vcc
B880A BB 16P SOCKET
P803 PLUG 6P
EPG POW
P802 PLUG 3P_5mm
S801
C805 AC250V470P
C806 AC250V470P
C802 OPEN
T803 OPEN
T802 TRF3229AQ
T801 TRF3234AQ
GJ10 SHORT
GJ11 SHORT
GJ12 SHORT
GJ13 SHORT
GJ05 OPEN
GJ06 OPEN
GJ07 OPEN
GJ08 OPEN
GJ01 OPEN
GJ02 OPEN
GJ03 OPEN
GJ04 OPEN
R802 1/2R2.2
R801 1/2R2.2
D816 INR15G471K
C801 AC275V0.22u
FB01B FB01A F801 T5A/250V
P805B 1P
P800 Lock 2P_11.88mm_S
SR81 DC12V
D851 RD6.2ESAB3
R821 5W1.8
R820 2W1.8
D850 1SS133
R856 4.7k
Q853 2SC1740S
R857 10k
Q852 2SC1740S
D852 1SS133
R855 4.7k
R854 3.3k
SR80 TV5 0.15W
Q851 2SC1740S
R853 10k
D861 1SS133
R830 5W4.7
LN18A60 Q860
Z831 PRF10005PRT
T860 TPW3517AH
D861 EU2A
C868 16V1000
D864 RD4.7ESAB1
D865 RD4.7ESAB1
C860 450V4.7
R861 1/2R5.6k
D868 RD10ESAB1
C863 2kV100
Q863 TNP421(GR)
R862 1/6P10k
C864 50V2.2
D863 RD6.2ESAB3
D867 RD10ESAB1
C862 63V0.10
D866 MIP290
D862 RD5.6ESAB2
Q861 MM1437AS
L860 TRF4331AZ
C865 63V0.10
C866 50V22
C867 50V22
D860 RD5.6ESAB2
C803 AC275V0.47u
R840 OPEN
D844 OPEN
D840 OPEN
C841 OPEN
C842 OPEN
R841 OPEN
C845 OPEN
C844 OPEN
Q840 OPEN
Q840A Q840B Q840C
R842 OPEN
R844 OPEN
R845 OPEN
C851 OPEN
C852 OPEN
R846 OPEN
Q842 OPEN
L840 OPEN
R843 OPEN
R848 OPEN
R849 OPEN
R850 OPEN
R851 OPEN
Q841 OPEN
Q843 OPEN
D842 OPEN
R847 OPEN
POWER CODE
P801
SOLDERING SUB-MATERIAL
N818
N814
N815
N817
HATOME
PH89
PH90
WIRE CLIP
B801 B802
42WH36P/51WH36P
POWER

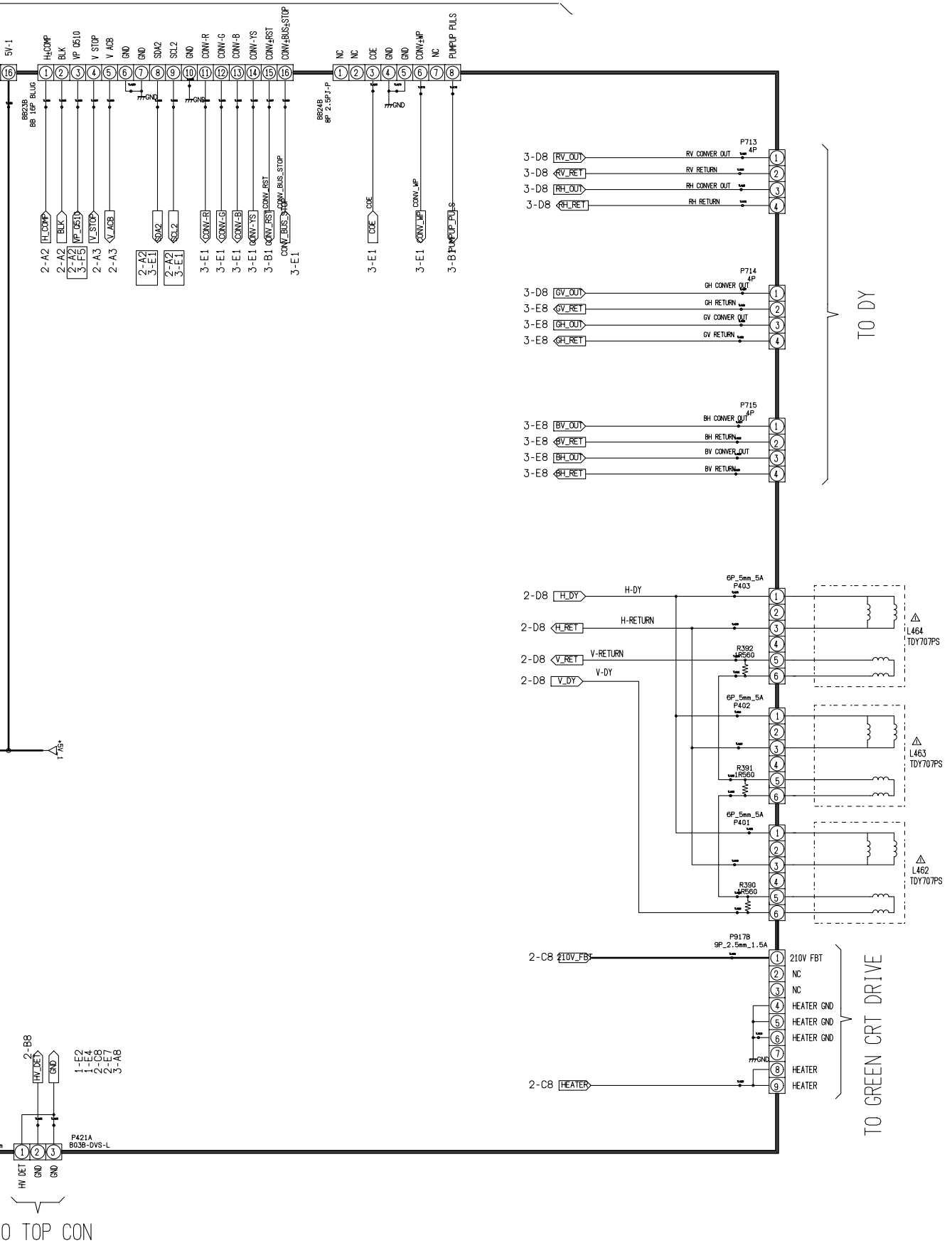

LIVE AREA
T845
TPW2047AS/TPW2034BZ
T844
TPW2042AH/TPW2042AS
C847
800V0.022
Z845
PRF10005PRT
C849
630V0.01u
C848
1250VH5100p
D845
YG226SB
D845A
D845B
D803
D15XB60H
D803A
D803B
D803C
C857
250V4700pF
C858
250V4700pF
GJ24
OPEN
GJ20
OPEN
GJ25
OPEN
GJ21
OPEN
GJ22
SHORT
GJ23 SHORT
C850
450V560u
Z810
PRF4000
VIN
GND
CONT
CSS
CD
DT
VCC
L803
TEM2011AA
C812
10000
D805
RD9.1ESAB1
D806
RD27ESAB3
C811
63V1.0
C814
200V2.2
R807
22
R803
3.3k
D809
RD36ESAB3
C815
63V0.47
R828
2K10k
R827
2K10k
R817
1P220k
ASIA MODEL
R841
OPEN
C845
OPEN
R842
OPEN
C844
OPEN
Q840
OPEN
Q840A
Q840B
Q840C
R843
OPEN
Q842
OPEN
L840
OPEN
R848
OPEN
R849
OPEN
D843
OPEN
R844
OPEN
D84A
OPEN
R850
OPEN
R845
OPEN
R847
OPEN
R851
OPEN
D842
OPEN
C851
OPEN
C841
OPEN
C842
OPEN
R840
OPEN
D844
OPEN
D840
OPEN
C803
AC275V0.47u
R846
OPEN
C852
OPEN
Q841
OPEN
C843
OPEN
LIVE AREA
EPG POW
P803
PLUG 5P
P802
PLUG 3P_5mm
S801
C805
AC250V470P
C806
AC250V470P
C802
OPEN
SR81
DC12V
D851
RD6.2ESAB3
R821
5W4.7
R820
2W1.8
D850
1SS133
R856
4.7k
Q853
2SC1740S
R857
10k
SR80
TV5 0.15W
Q852
2SC1740S
D852
1SS133
R855
6.8k
R854
3.3k
Q851
2SC1740S
R853
10k
D854
1SS133
Q861
MM1437AS
T803
OPEN
G110
SHORT
G111
SHORT
G112
SHORT
G113
SHORT
T802
TRF3229AQ
G105
OPEN
G106
OPEN
G107
OPEN
G108
OPEN
T801
TRF3234AQ
G102
OPEN
G101
OPEN
G104
OPEN
G103
OPEN
R830
5W4.7
LN1M9A60
0980
Z831
PRF10005PRT
T860
TPW3517AH
D861
EU2A
C868
16V1000
D864
RD4.7ESAB1
D865
RD4.7ESAB1
L860
TRF4331AZ
C865
63V1.0
C866
50V22
C867
50V22
D866
RD5.6ESAB2
C860
450V4.7
R861
1/2R5.6k
D868
RD10ESAB1
C863
2kV100
Q863
TRF421(G)
R862
1/2R10k
C864
50V2.2
D863
RD6.2ESAB3
D862
RD5.6ESAB2
D867
RD10ESAB1
C862
63V0.10
Q860
M1P290
R802
1/2R2.2M
R801
1/2R2.2M
D816
1NR15G471K
C801
AC275V0.22u
F801A
F801B
F801
T5A/250V
P800
Lock 2P_11.88mm_S
P805B
1P
POWER CODE
P801
SOLDERING
SUB-MATERIAL
N818
N814
N815
N817
HATOME
PH89
PH90
WIRE CLIP
B801
B802



42WH36P/51WH36P
POWER

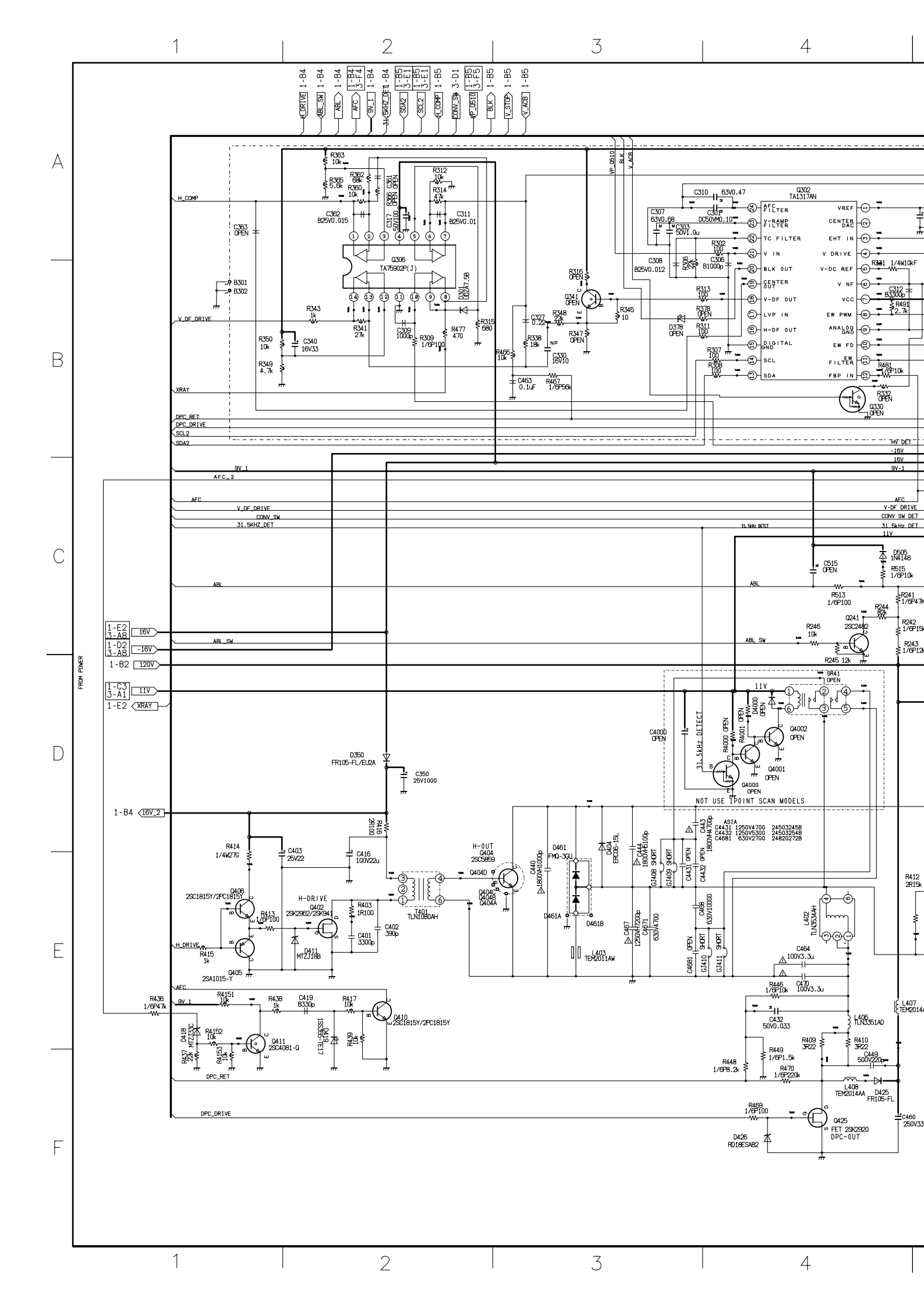

TO SIGNAL
FROM POWER
TO DY
TO GREEN CRT DRIVE
TO FOCUS PAC
TO TOP CON
BB21B BB 16P BLUG
BB29B BB 16P BLUG
BB39B BB 16P BLUG
BB48B 8P 2.5PJ-P
BB85B 8P 2.5PJ-P
BB80B BB 16P BLUG
BB82B BB 16P BLUG
R101 2815k TUNER32V
P713 4P
P714 4P
P715 4P
P403 6P_5mm_5A
P402 6P_5mm_5A
P401 6P_5mm_5A
R392 4R560
R391 4R560
R390 4R560
L464 TDY707PS
L463 TDY707PS
L462 TDY707PS
P917B 9P_2.5mm_1.5A
P414 PLUG 3P_5mm
P421A B03B-DVS-L
SOLDERING SUB-MATERIAL
N481
N482
N483
N484
U411
42WH36P/51WH36P
DEF/CONVER-OUT - CONNECTION
[SHEET-1/3]

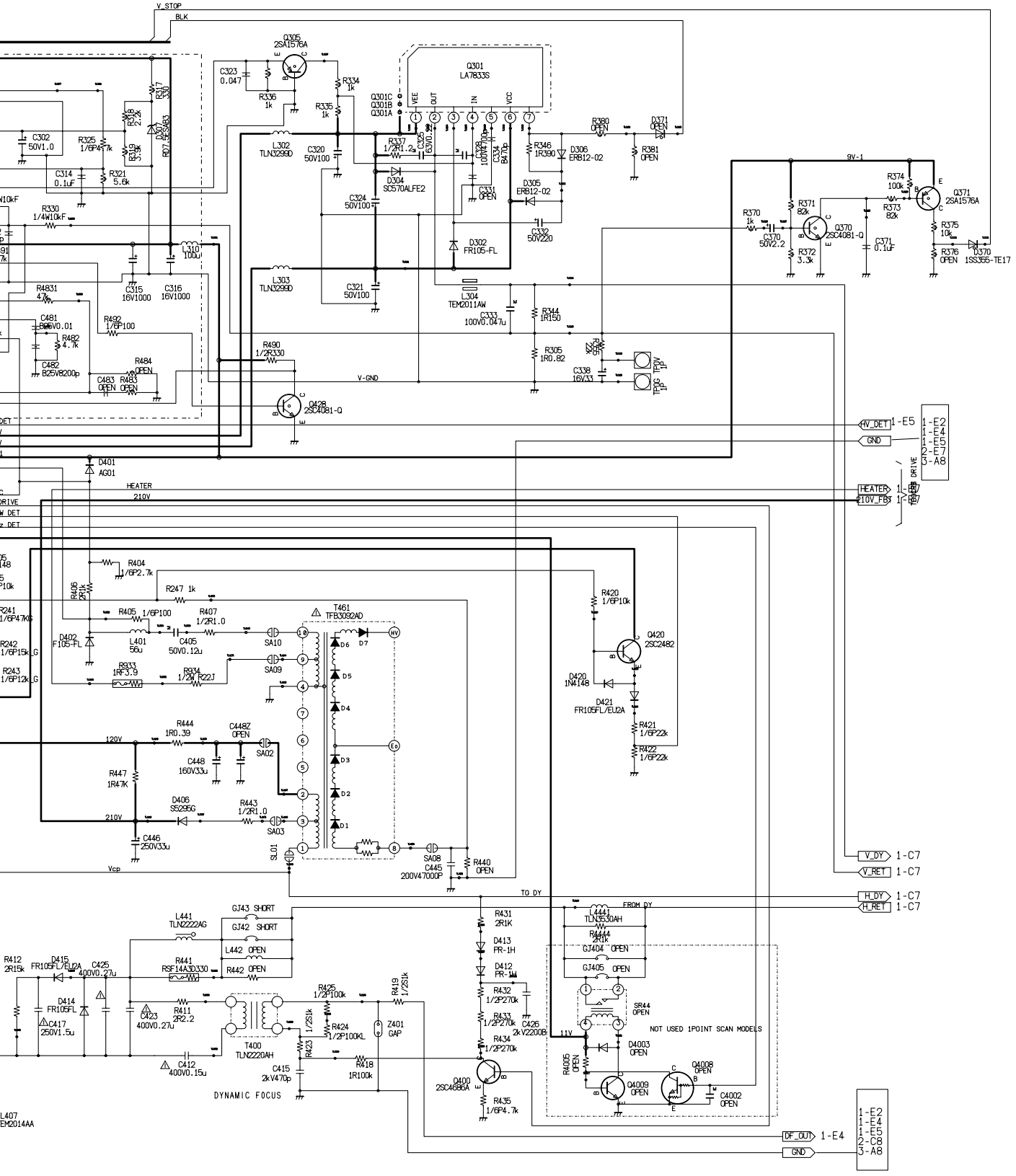

TO SIGNAL
FROM POWER
TO FOCUS PAC
BB21B
BB 16P BLUG
BB22B
BB 16P BLUG
BB85B
8P 2.5PJ-P
BB80B
BB 16P BLUG
BB82B
BB 16P BLUG
P414
PLUG 3P_5mm
R101
2R15k
TUNER32V
SOLDERING
SUB-MATERIAL
N481
N482
N483
N484
U411



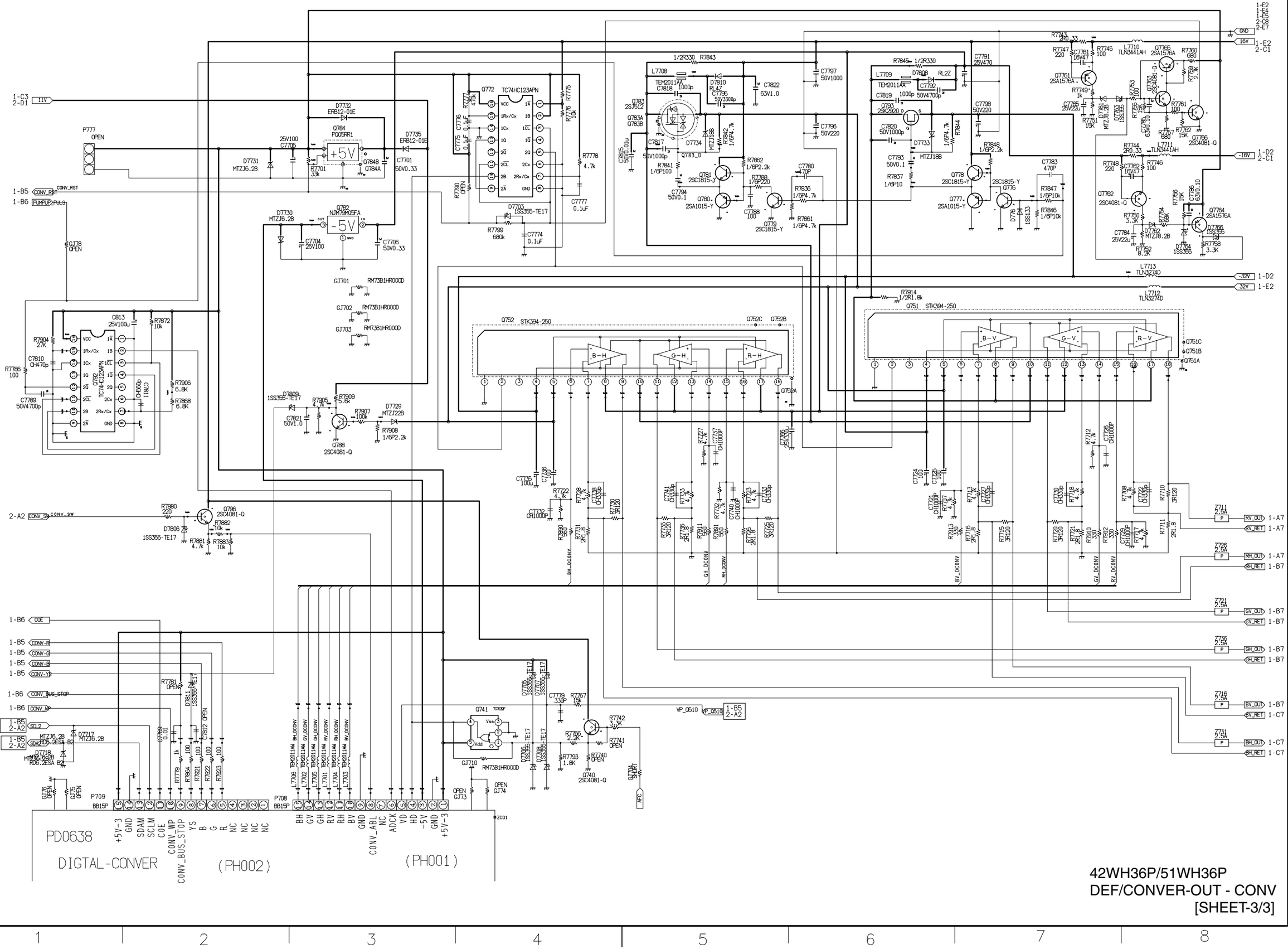
42WH36P/51WH36P
DEF/CONVER-OUT - CONNECTION
[SHEET-1/3]

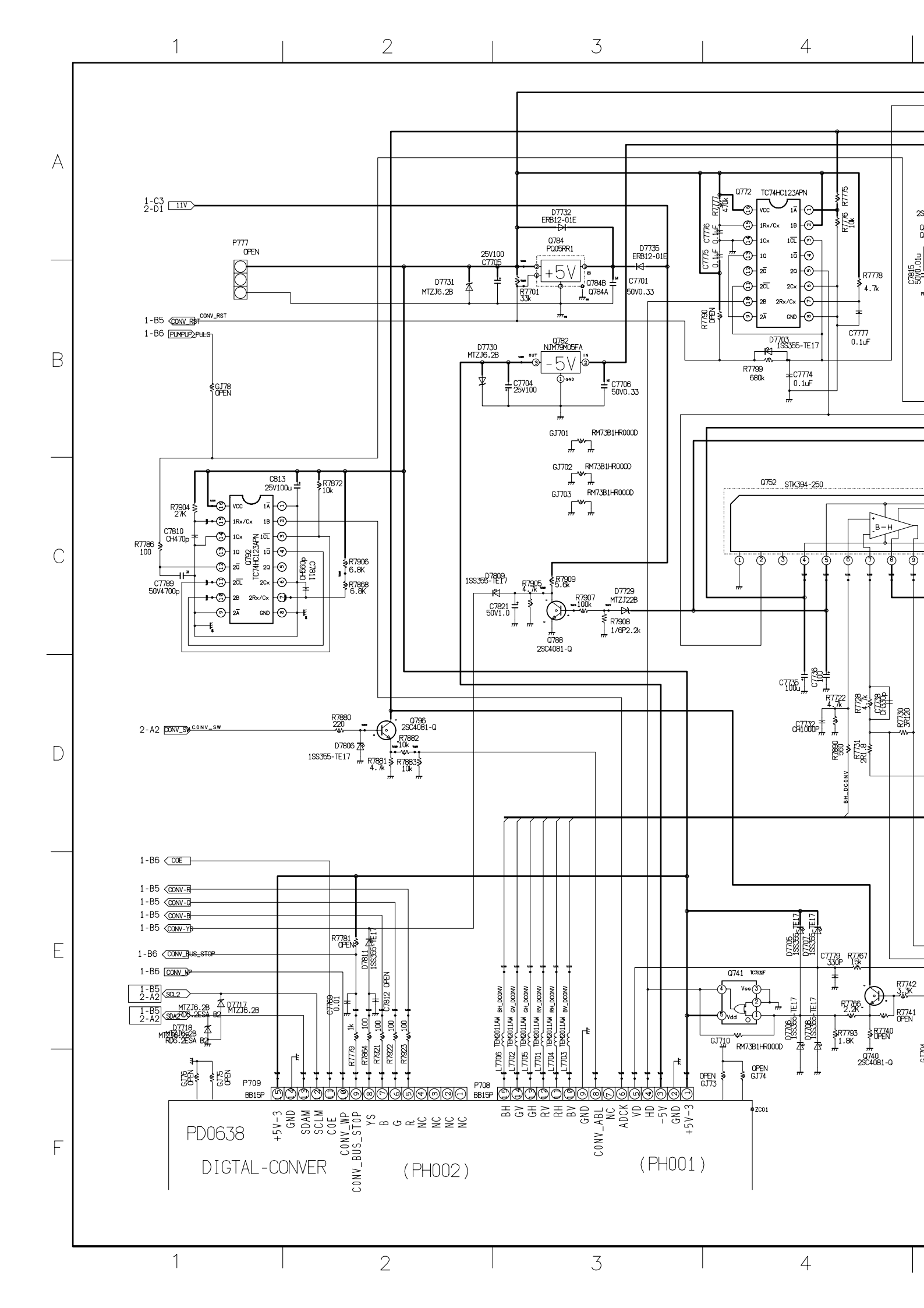
42WH36P/51WH36P
DEF/CONVER-OUT - DEF
[SHEET-2/3]


1-B4 V_DRIVE
1-B4 ABL_SW
1-B4 ABL
1-B4 3-F4 AFC
1-B4 9V_1
1-B4 31.5KHZ_DET
1-B5 3-E1 SDA2
1-B5 3-E1 SCL2
1-B5 3-E1 I_COMP
3-D1 CONV_SW
1-B5 3-F5 VP_DS10
1-B5 BLK
1-B5 V_STOP
1-B5 V_AGB
H_COMP
V_DF_DRIVE
XRAY
DPC_RET
DPC_DRIVE
SCL2
SDA2
9V_1
AFC_2
AFC
V_DF_DRIVE
CONV_SW
31.5KHZ_DET
ABL
ABL_SW
1-E2 3-A8 16V
1-D2 3-A8 -16V
1-B2 120V
1-C3 3-A1 11V
1-E2 XRAY
FROM POWER
1-B4 16V_2
H_DRIVE
AFC
DPC_RET
DPC_DRIVE
HV DET
-16V
16V
9V-1
11V
Q306 TA75902P(J)
Q302 TA1317AN
AFC FILTER
V-RAMP FILTER
TC FILTER
V IN
BLK OUT
CENTER OUT
V-DF OUT
LVP IN
H-DF OUT
DIGITAL GND
SCL
SDA
VREF
CENTER DAC
EHT IN
V DRIVE
V-DC REF
V NF
VCC
EW PWM
ANALOG GND
EW FD
EW FILTER
FBP IN
D350 FR105-FL/EU2A
C350 25V1000
H-OUT Q404 2SC5659
Q404D
Q404C
Q404B
Q404A
T401 TLN1080AH
H-DRIVE Q402 2SK2962/2SK941
Q406 2SC1815Y/2PC1815Y
Q405 2SA1015-Y
D411 MTZJ18B
D461 FMQ-39J
D461A
D461B
D404 ERC06-15L
L403 TEM2011AW
L402 TLN534AH
L406 TLN3351AD
L407 TEM2014
L408 TEM2014AA
D425 FR105-FL
Q425 FET 2SK2920 DPC-OUT
D426 RD18ESAB2
Q410 2SC1815Y/2PC1815Y
Q411 2SC4081-Q
D418 MTZJ33C
D419 1SS355-TE17
Q241 2SC2482
Q4000 OPEN
Q4001 OPEN
Q4002 OPEN
31.5kHz DETECT
NOT USE IPOINT SCAN MODELS
ASIA
C4431 1250V4700 24503245B
C4432 1250V5300 24503254B
C4681 630V2700 24820272B



42WH36P/51WH36P
DEF/CONVER-OUT - DEF
[SHEET-2/3]


PD0638
DIGTAL-CONVER
(PH002)
(PH001)
+5V-3 GND SDAM SCLM COE CONV_WP CONV_BUS_STOP YS B G R NC NC NC NC
BH GV GH RV RH BV GND CONV_ABL NC ADCK VD HD -5V GND +5V-3
42WH36P/51WH36P
DEF/CONVER-OUT - CONV
[SHEET-3/3]


PD0638
DIGTAL-CONVER
(PH002)
(PH001)
P709
P708
BB15P
+5V-3
GND
SDAM
SCLM
COE
CONV_WP
CONV_BUS_STOP
YS
B
G
R
NC
BH
GV
GH
RV
RH
BV
CONV_ABL
ADCK
VD
HD
-5V
ZC01
TC74HC123APN
STK394-250
NJM79M05FA
TDK011AW
1-C3
2-D1
11V
P777
OPEN
D7732
ERB12-01E
Q784
PQ05RR1
+5V
D7735
ERB12-01E
25V100
C7705
D7731
MTZJ6.2B
R7701
33k
C7701
50V0.33
Q772
R7777
4.7k
R7776
10k
R7775
C7776
0.1uF
C7775
0.1uF
R7778
4.7k
R7790
OPEN
C7777
0.1uF
D7703
1SS355-TE17
R7799
680k
C7774
0.1uF
1-B5
CONV_RST
1-B6
PUMPUP
PULS
GJ78
OPEN
D7730
MTZJ6.2B
-5V
C7704
25V100
C7706
50V0.33
GJ701
RM73B1HR000D
GJ702
RM73B1HR000D
GJ703
RM73B1HR000D
C813
25V100u
R7872
10k
R7904
27K
C7810
CH470p
R7786
100
C7789
50V4700p
R7906
6.8K
R7868
6.8K
CH560p
CH82
Q752
B-H
D7809
1SS355-TE17
R7905
4.7k
R7909
5.6k
C7821
50V1.0
R7907
100k
D7729
MTZJ22B
R7908
1/6P2.2k
Q788
2SC4081-Q
C7735
100u
C7736
100
R7722
4.7k
C7732
CH1000P
R7728
4.7k
C7738
CH330P
R7730
3K120
R7880
220
Q796
2SC4081-Q
R7882
10k
D7806
1SS355-TE17
R7881
4.7k
R7883
10k
2-A2
CONV_SW
BH_DCONV
1-B6
COE
1-B5
CONV-R
CONV-G
CONV-B
CONV-YS
1-B6
CONV_BUS_STOP
1-B6
CONV_WP
1-B5
2-A2
SCL2
SDA2
D7717
MTZJ6.2B
RD6.2ESA B2
D7718
MTZJ6.2B
RD6.2ESA B2
R7781
OPEN
D7811
1SS355-TE17
C7812
OPEN
C7769
0.01
R7779
1k
R7864
100
R7921
100
R7922
100
R7923
100
GJ76
OPEN
GJ75
OPEN
L7706
L7702
L7705
L7701
L7704
L7703
GJ710
RM73B1HR000D
OPEN
GJ73
OPEN
GJ74
D7705
1SS355-TE17
D7707
1SS355-TE17
C7779
330P
R7767
15K
Q741
R7766
2.2K
R7742
3.3K
R7741
OPEN
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R7740
OPEN
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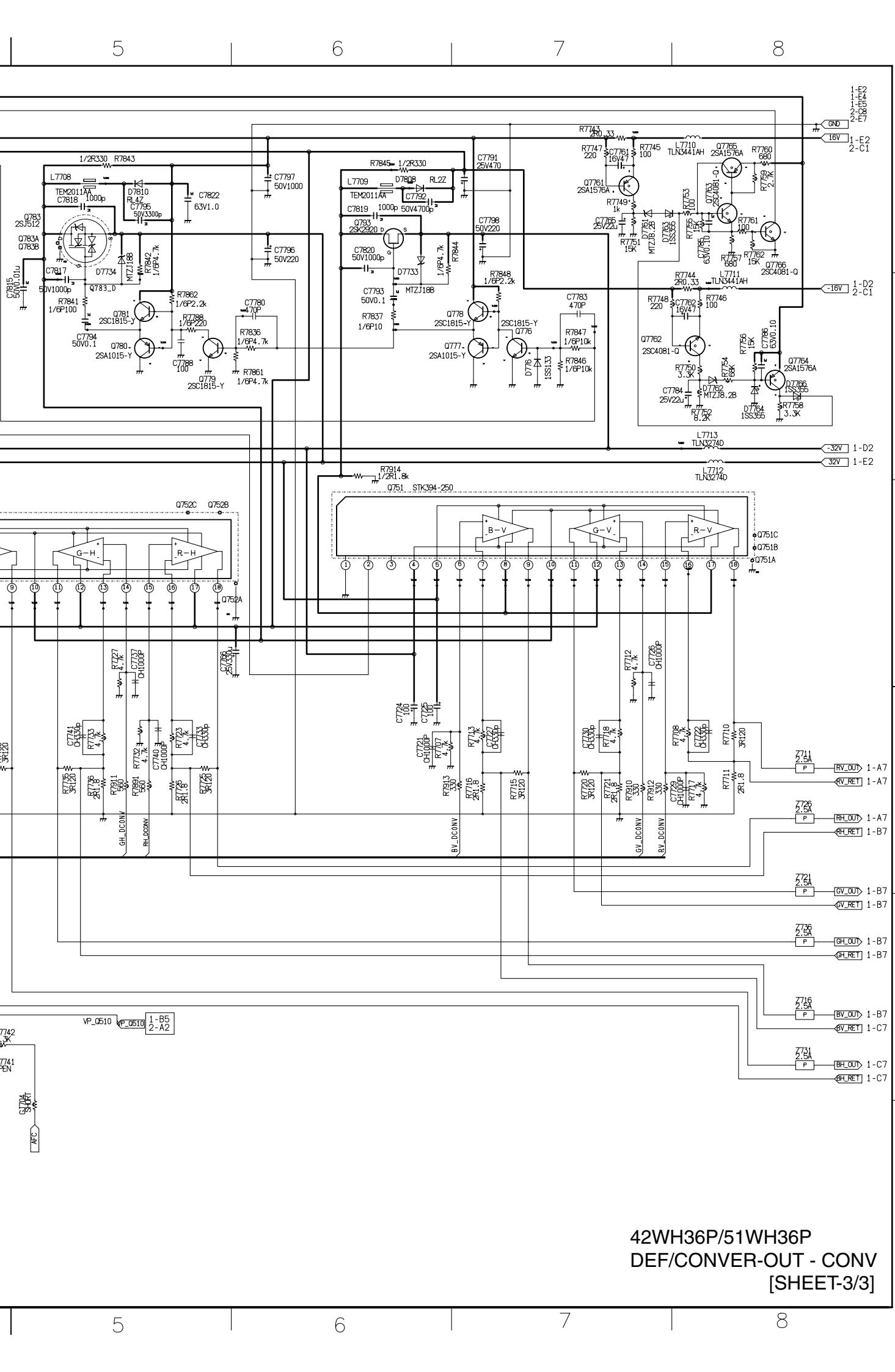
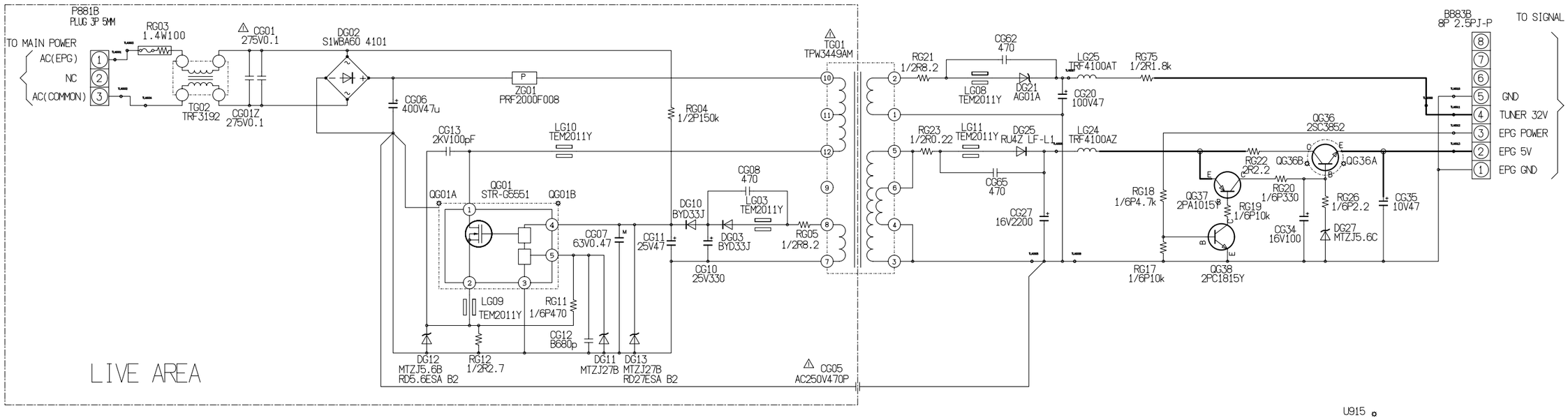
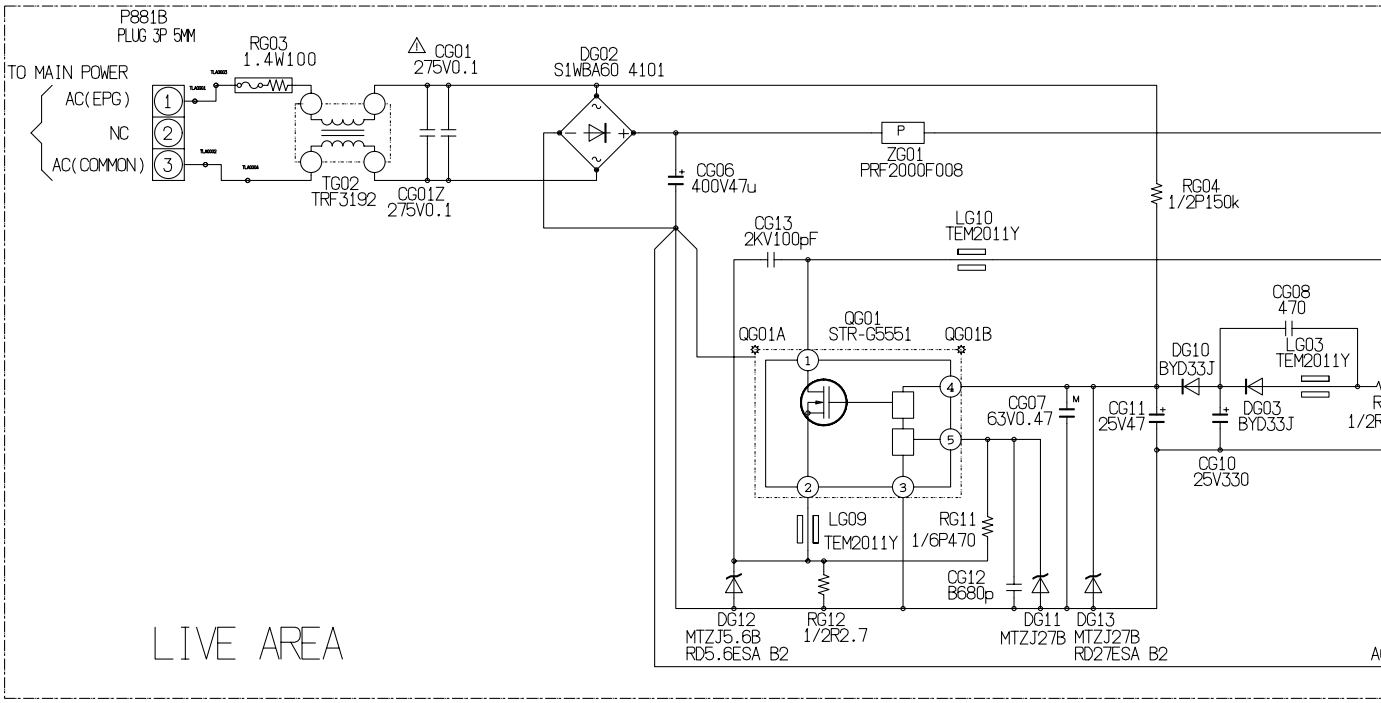


42WH36P/51WH36P
DEF/CONVER-OUT - CONV
[SHEET-3/3]

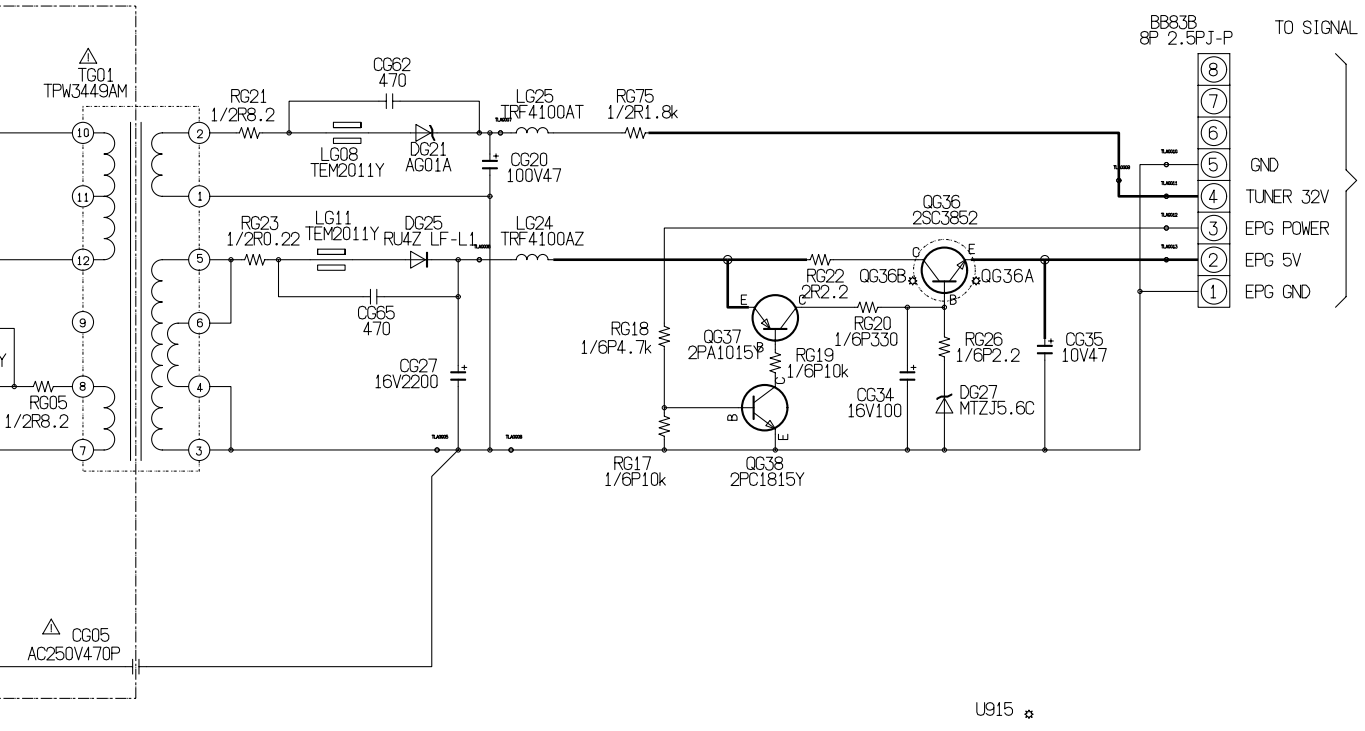


42WH36P/51WH36P
EPG POWER

A

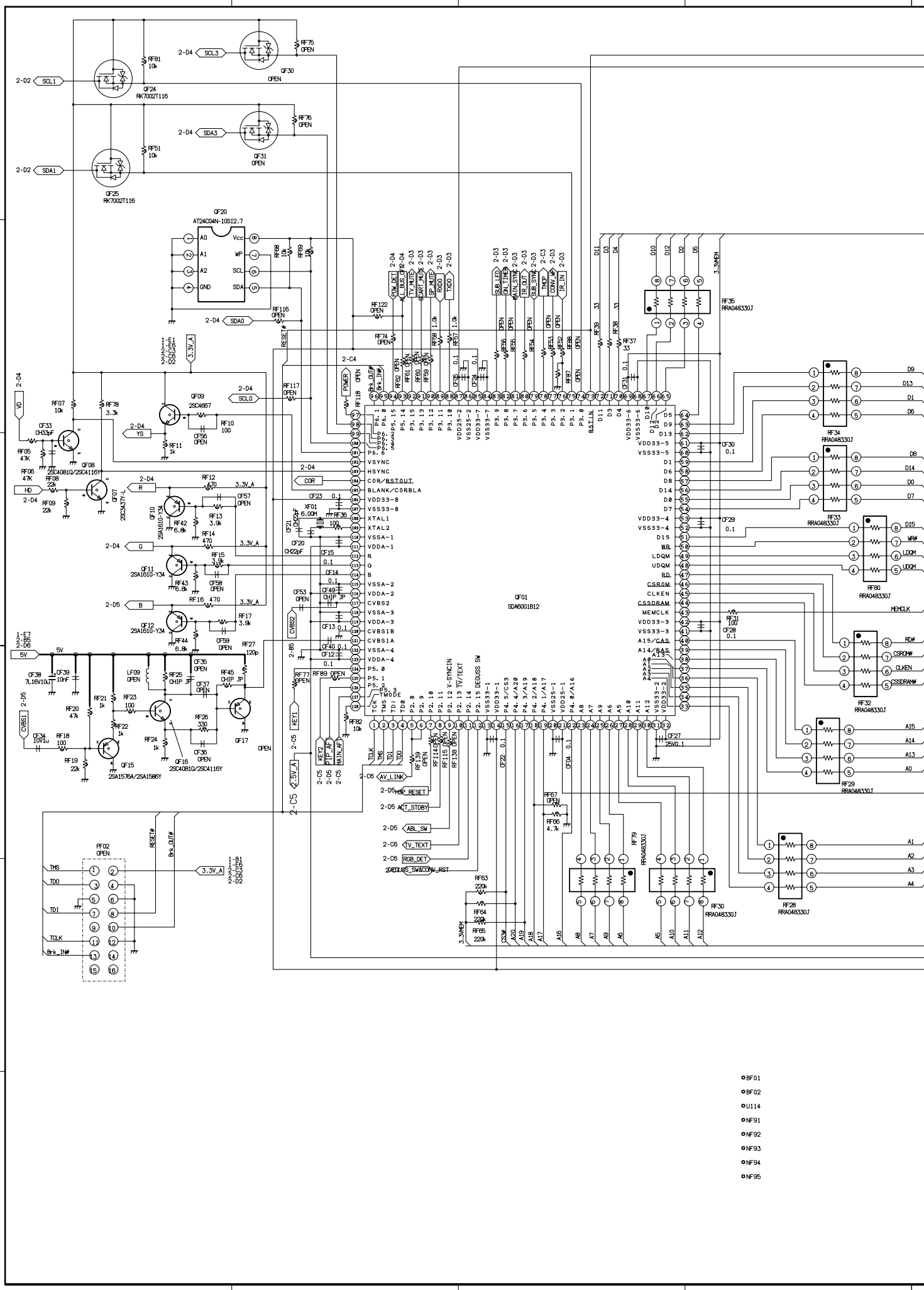

P881B
PLUG 3P 5MM
TO MAIN POWER
AC(EPG)
NC
AC(COMMON)
RG03
1.4W100
CG01
275V0.1
DG02
S1WBA60 4101
TG02
TRF3192
CG01Z
275V0.1
CG06
400V47u
ZG01
PRF2000F008
RG04
1/2P150k
CG13
2KV100pF
LG10
TEM2011Y
QG01
STR-G5551
QG01A
QG01B
CG08
470
DG10
BYD33J
LG03
TEM2011Y
CG07
63V0.47
CG11
25V47
DG03
BYD33J
CG10
25V330
LG09
TEM2011Y
RG11
1/6P470
CG12
B680p
DG12
MTZJ5.6B
RD5.6ESA B2
RG12
1/2R2.7
DG11
MTZJ27B
DG13
MTZJ27B
RD27ESA B2
LIVE AREA

B

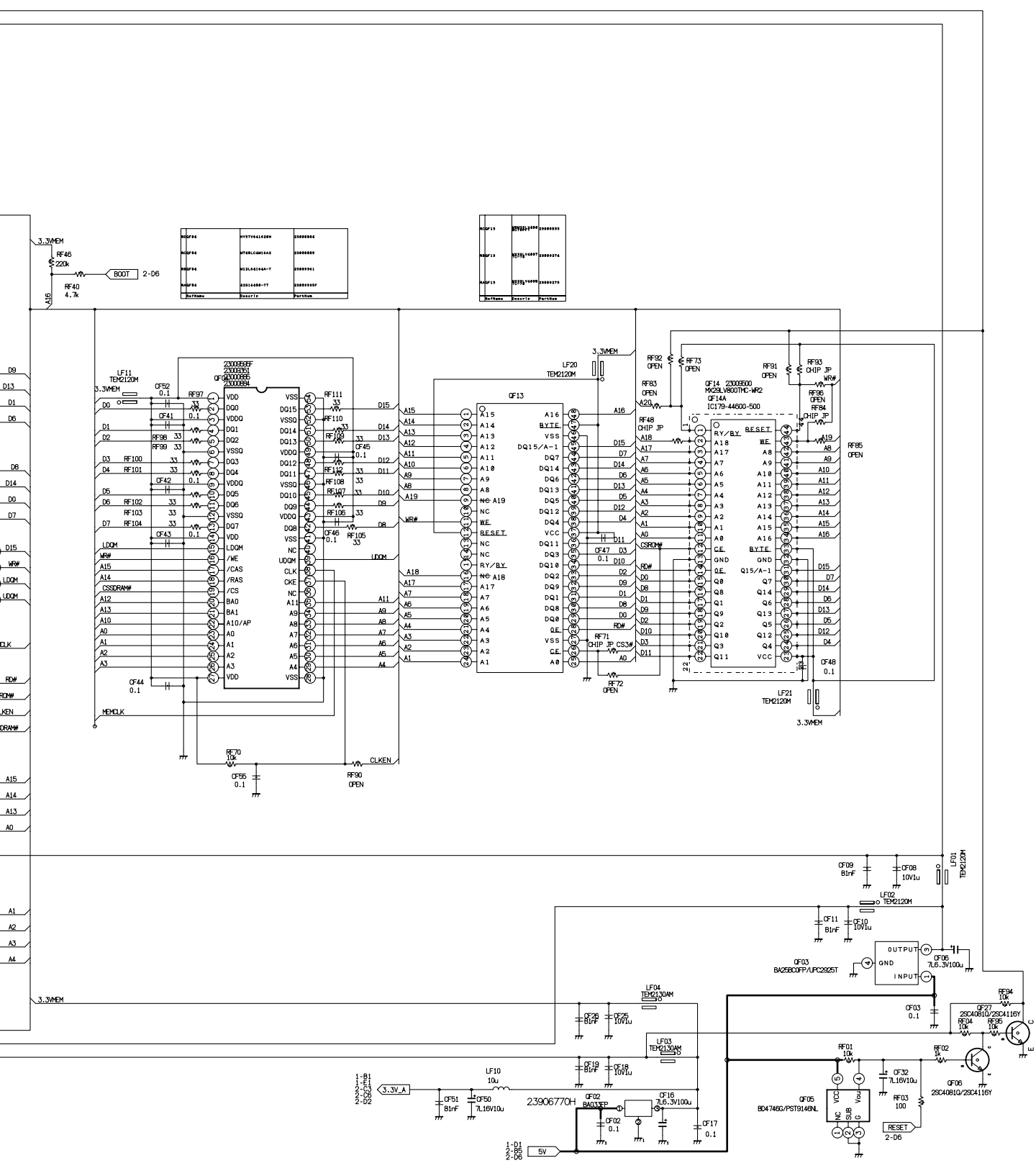


42WH36P/51WH36P
EPG POWER

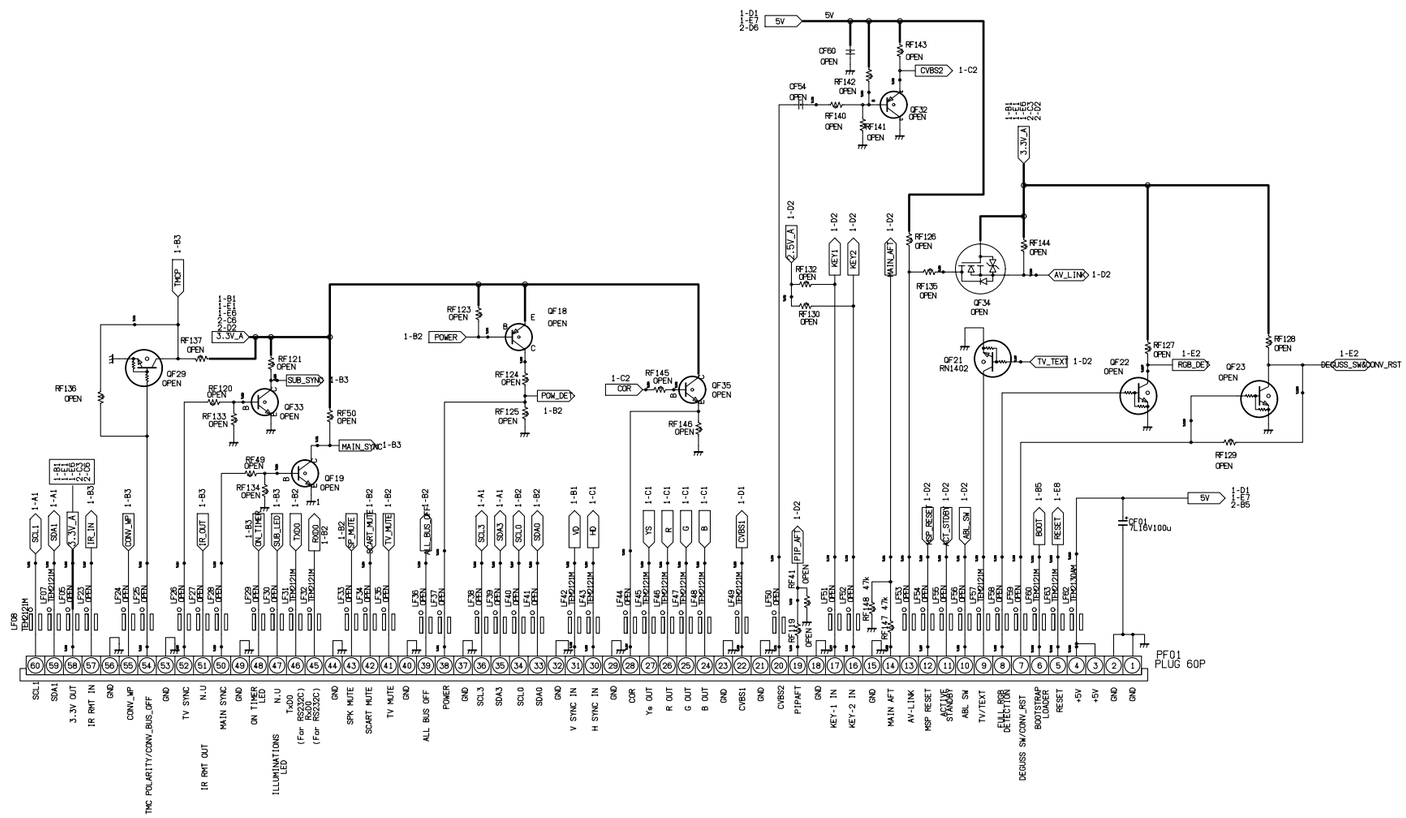
42WH36P/51WH36P
EPG-M2
2nd. Generation (1/2)
[SHEET-1/2]



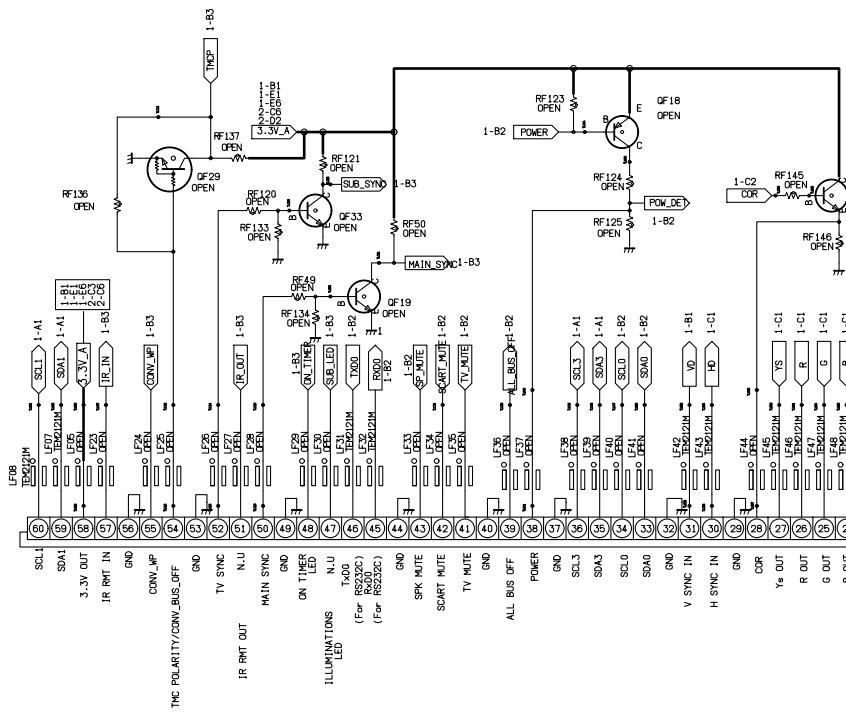
- BF01
- BF02
- U114
- NF91
- NF92
- NF93
- NF94
- NF95

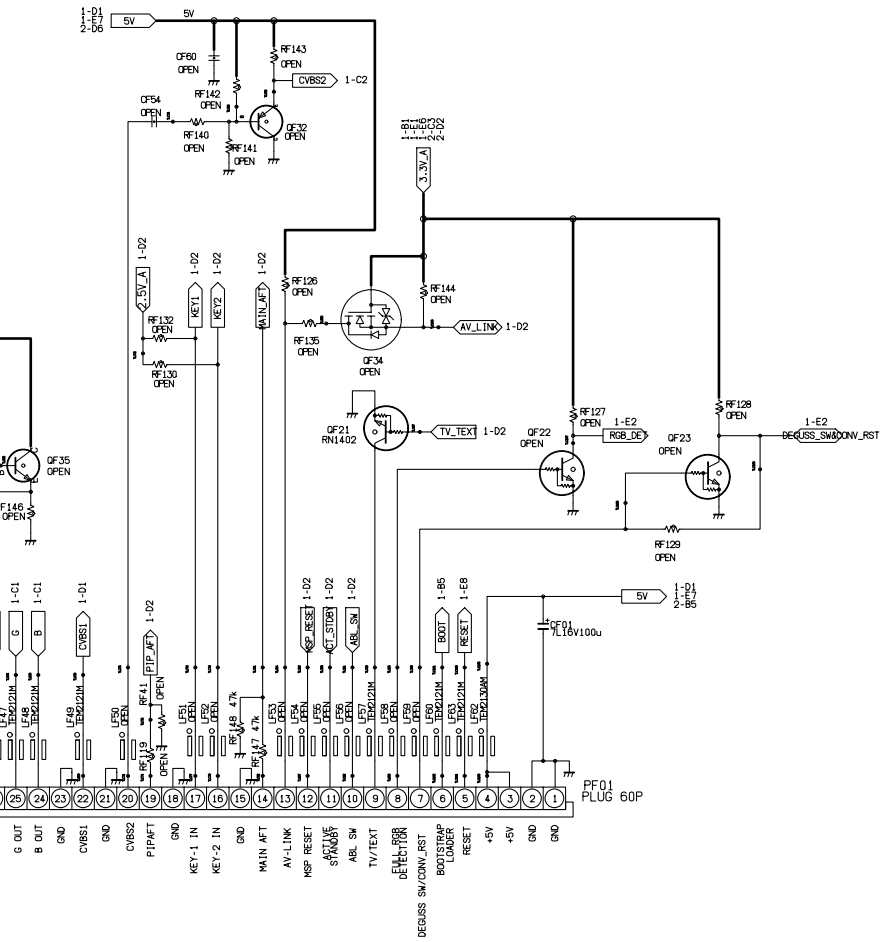


42WH36P/51WH36P
EPG-M2
2nd. Generation (1/2)
[SHEET-1/2]



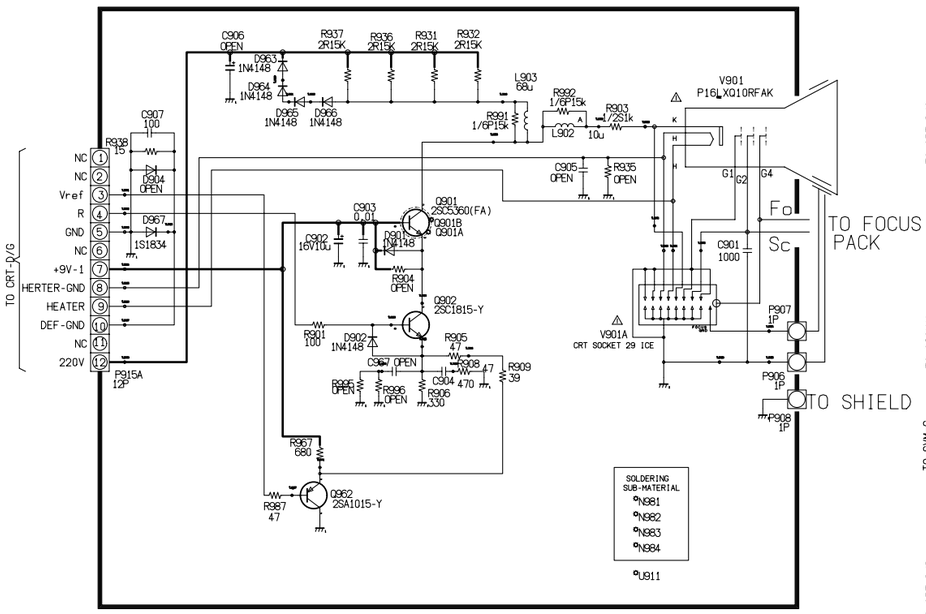
42WH36P/51WH36P
EPG-M2
2nd. Generation (2/2)
[SHEET-2/2]


SCL1
SDA1
3.3V OUT
IR RMT IN
GND
CONV_WP
TMC POLARITY/CONV_BUS_OFF
GND
TV SYNC
N.U
IR RMT OUT
MAIN SYNC
GND
ON TIMER LED
N.U
ILLUMINATIONS LED
TxD0 (For RS232C)
RxD0 (For RS232C)
GND
SPK MUTE
SCART MUTE
TV MUTE
GND
ALL BUS OFF
POWER
GND
SCL3
SDA3
SCL0
SDA0
GND
V SYNC IN
H SYNC IN
GND
COR
Ys OUT
R OUT
G OUT
TMCP
3.3V_A
SUB_SYNC
MAIN_SYNC
POWER
POW_DET
COR
QF29 OPEN
QF33 OPEN
QF19 OPEN
QF18 OPEN

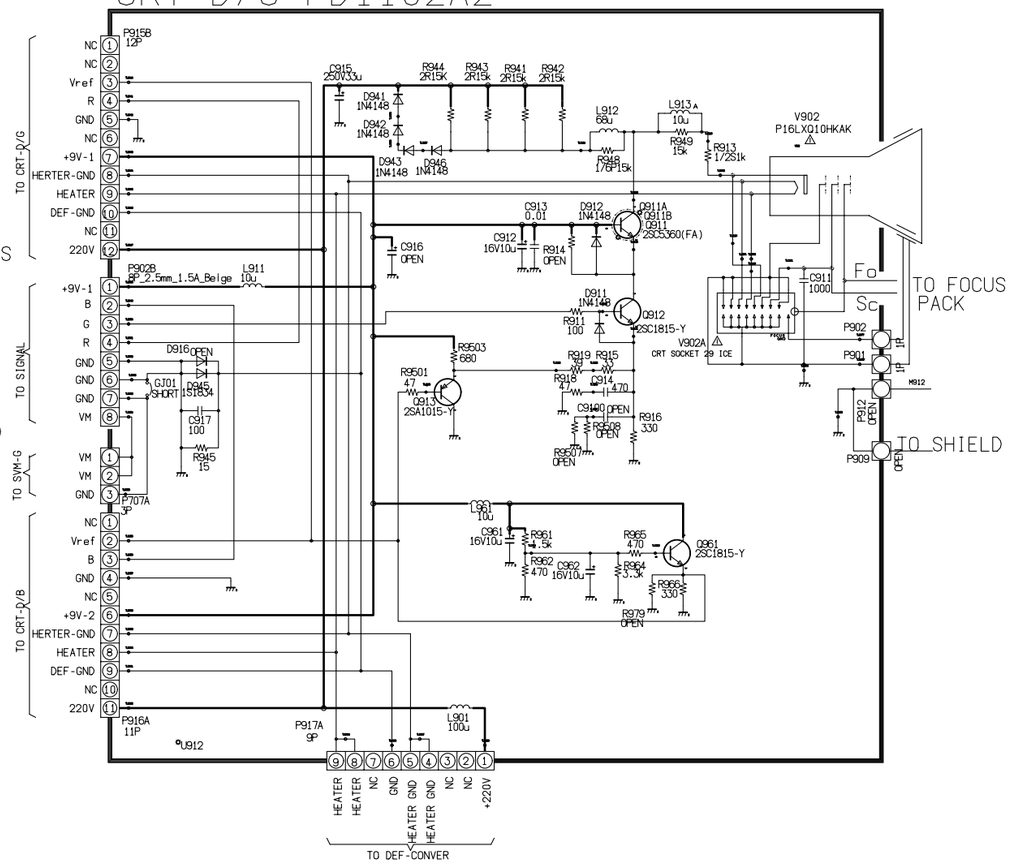


42WH36P/51WH36P
EPG-M2
2nd. Generation (2/2)
[SHEET-2/2]

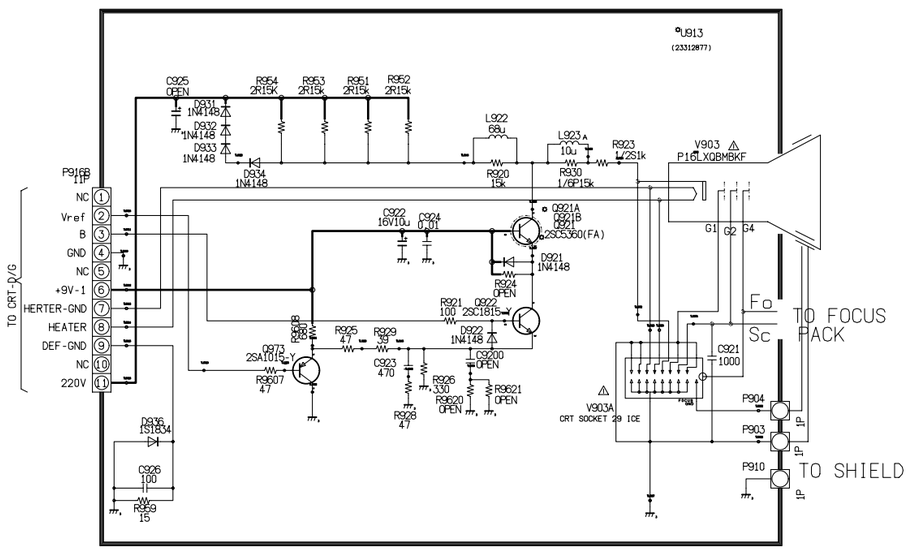
U901A
CRT-D/R PD1102A1



U901B
CRT-D/G PD1102A2

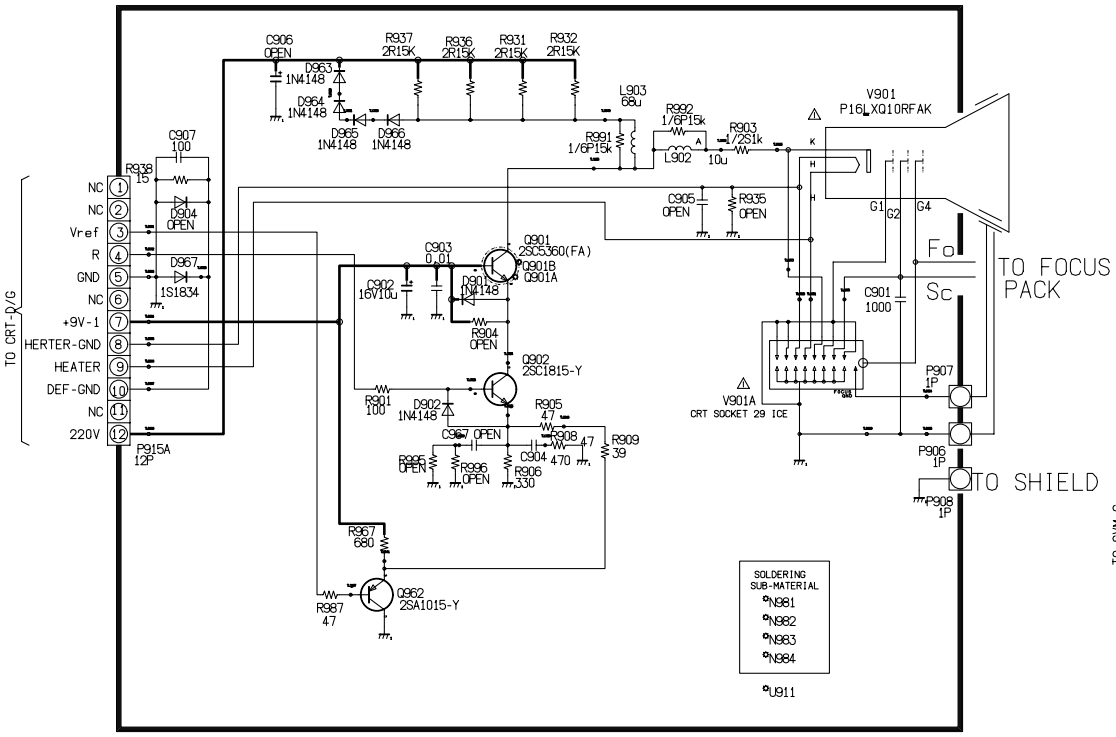


U901C
CRT-D/B PD1102A3

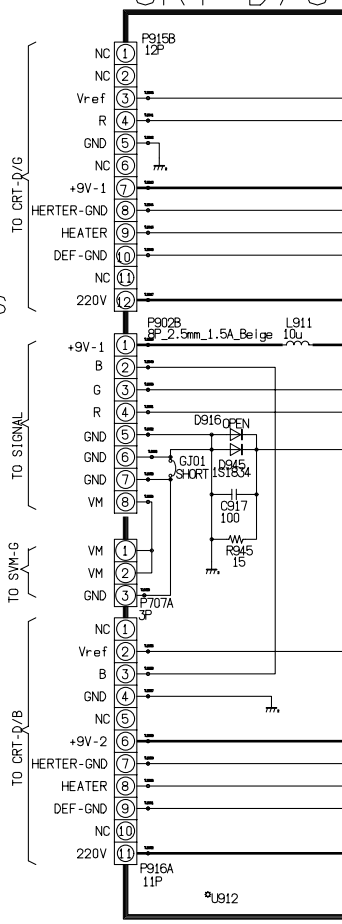


42WH36P/51WH36P
CRT-D SVM - CRT-D
[SHEET-1/2]

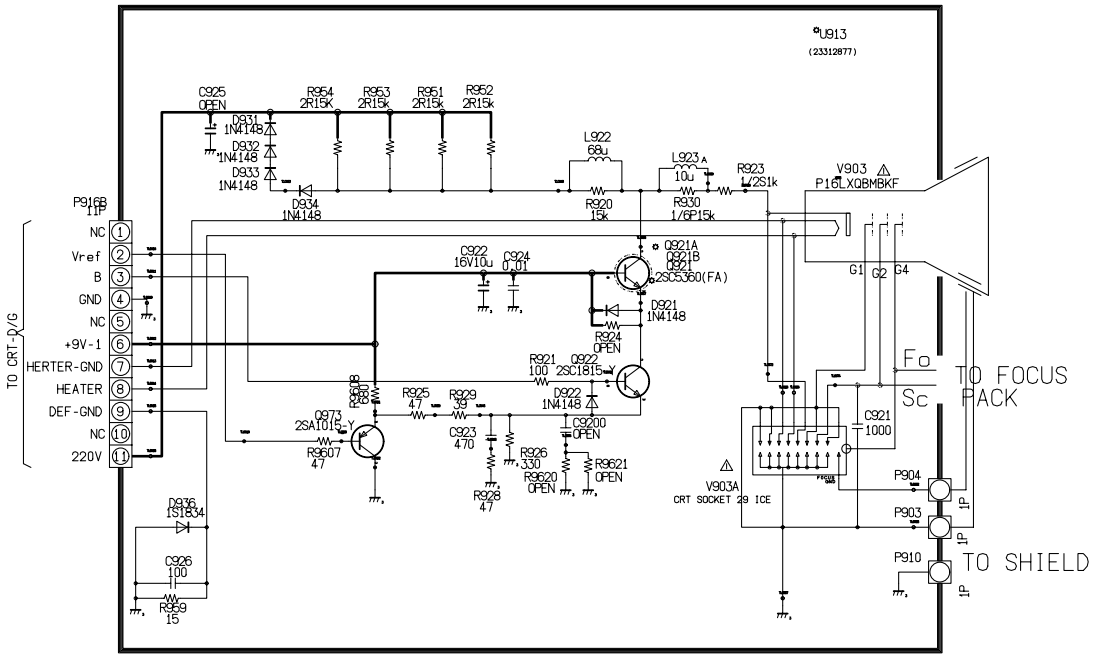
U901A
CRT-D/R PD1102A1



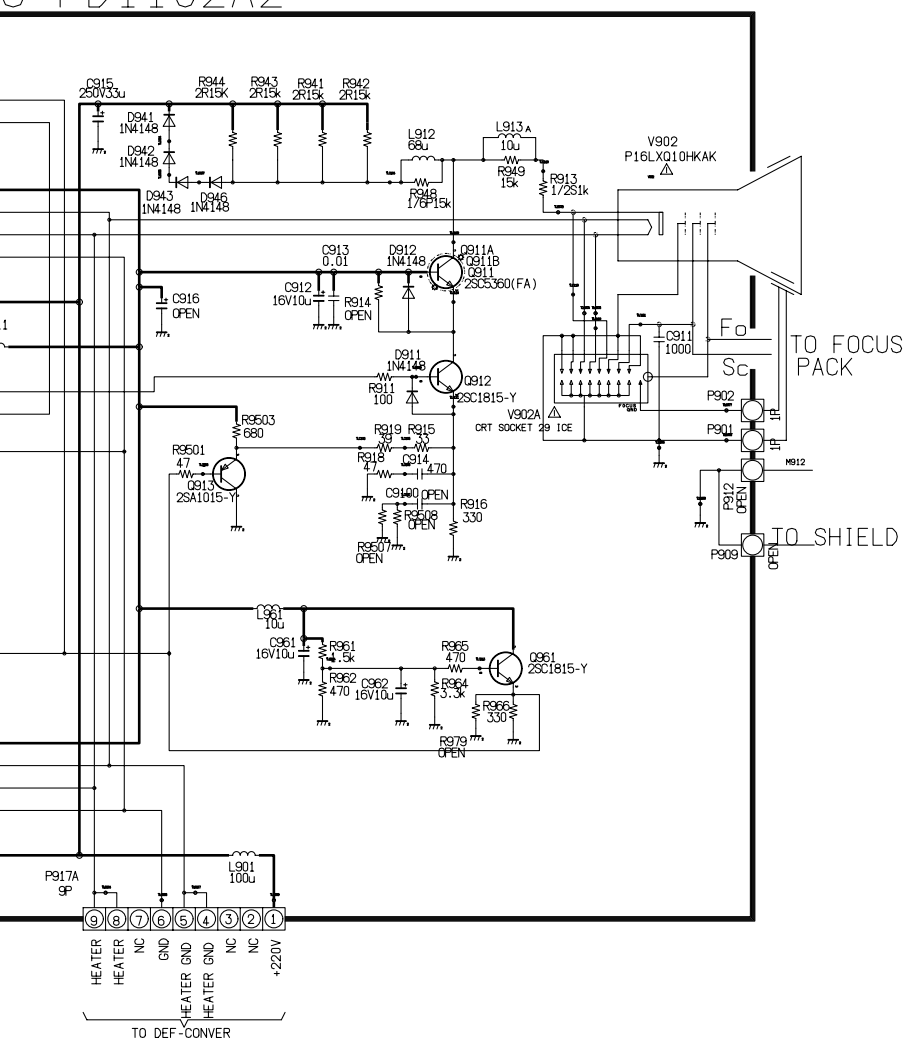
U901B
CRT-D/G



U901C
CRT-D/B PD1102A3

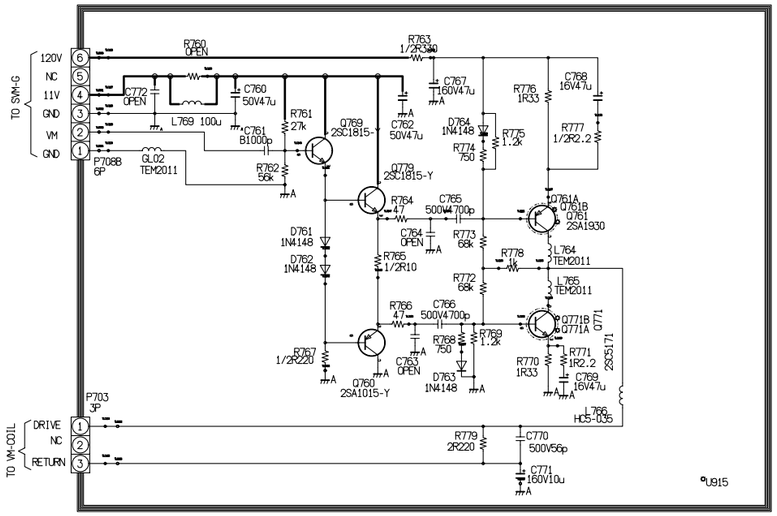


G PD1102A2

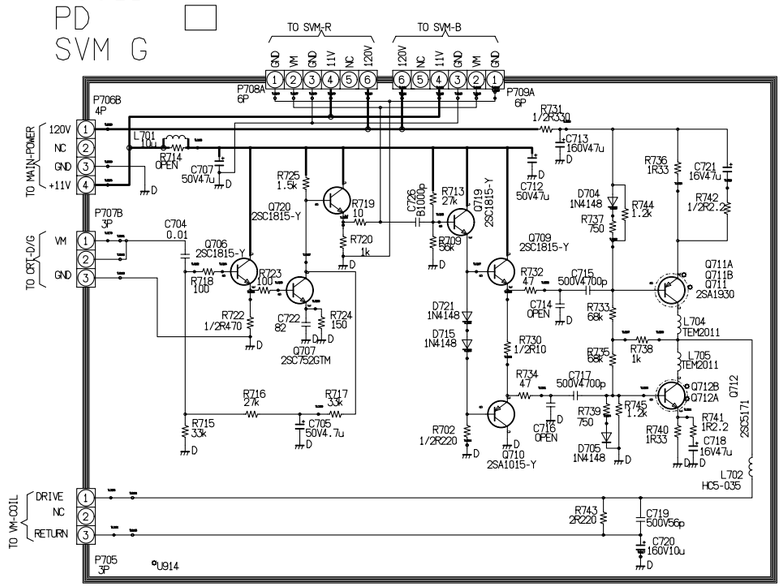


42WH36P/51WH36P
CRT-D SVM - CRT-D
[SHEET-1/2]

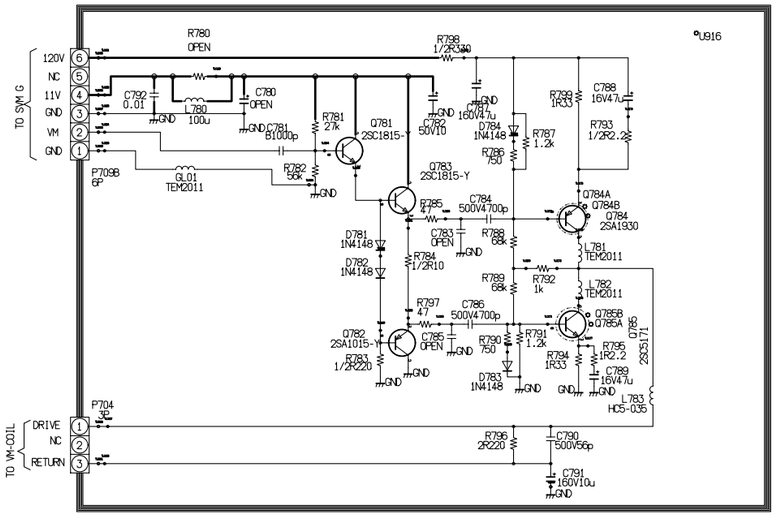
U901E
SVM R PD



U901D
PD
SVM G

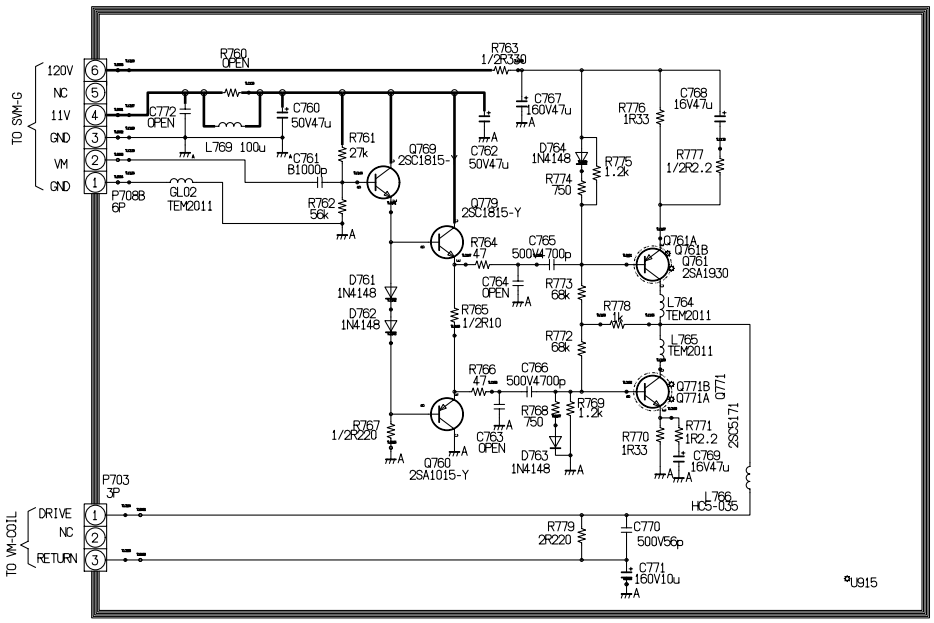


U901F
SVM B
PD

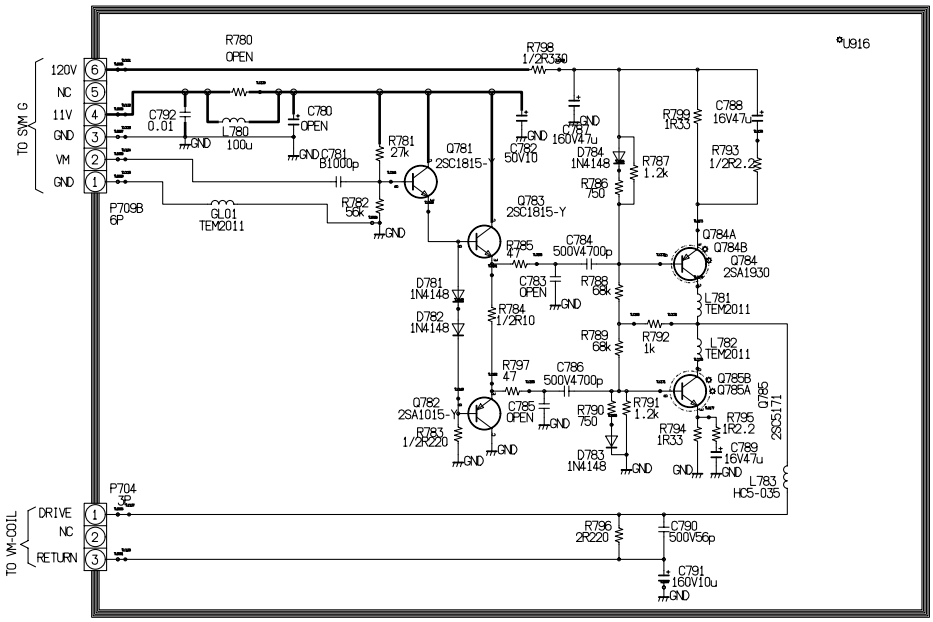


42WH36P/51WH36P
CRT-D SVM - SVM
[SHEET-2/2]

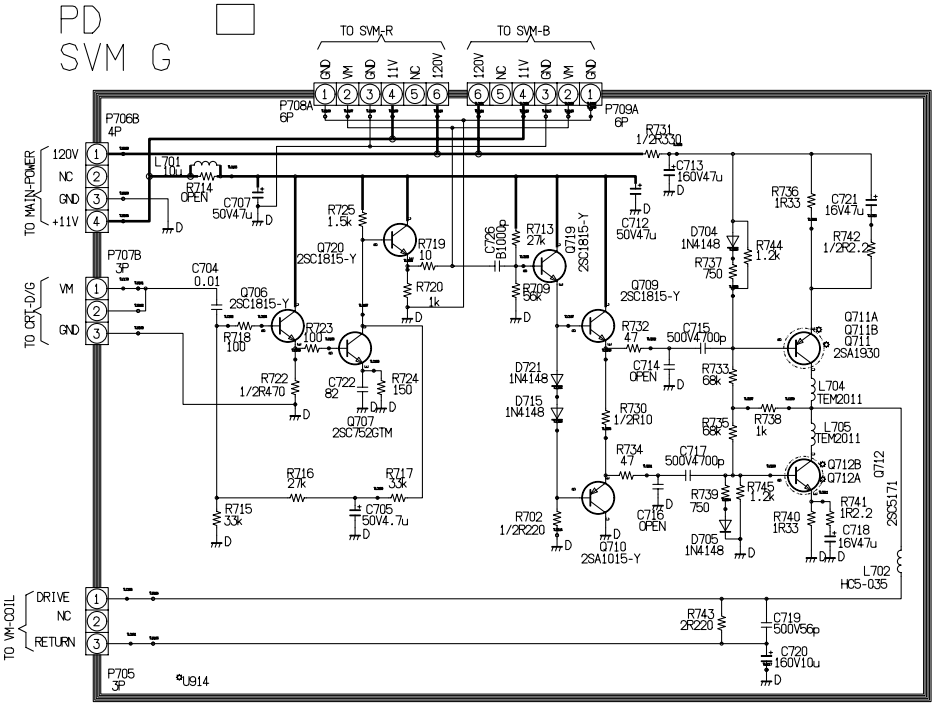
U901E
SVM R PD □



U901F
SVM B
PD □

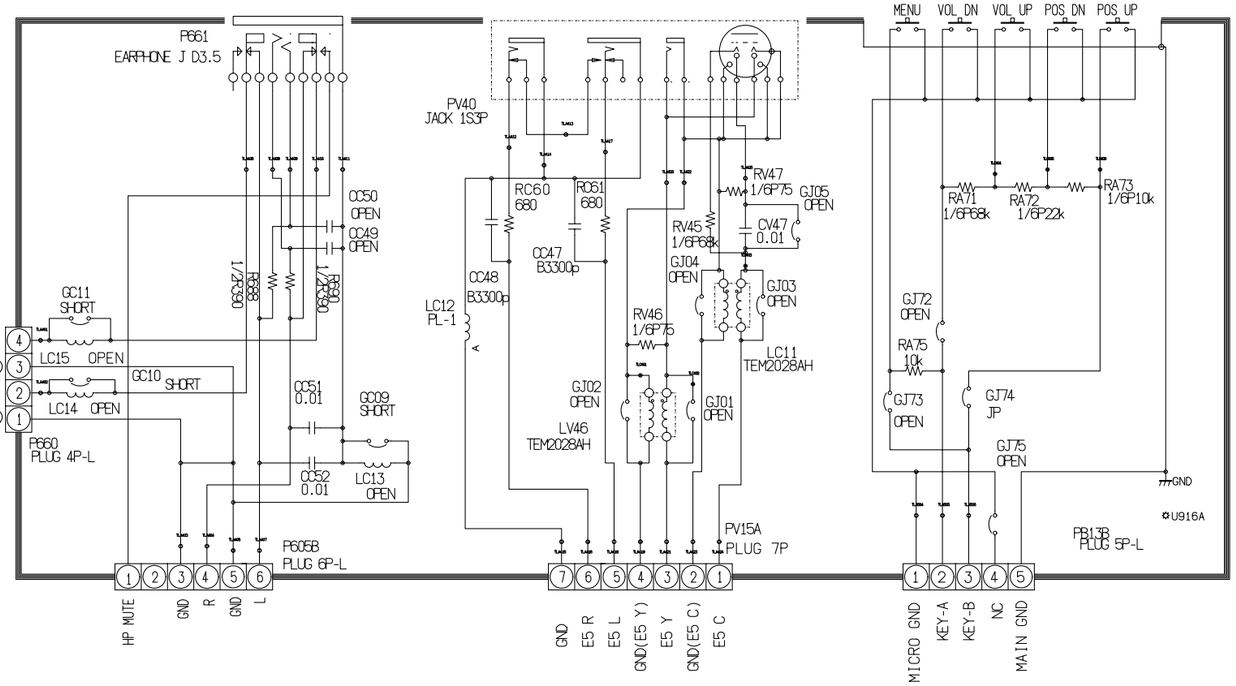


U901D
PD
SVM G

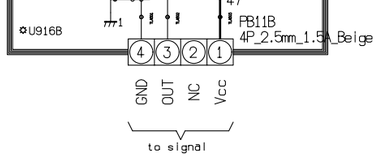


42WH36P/51WH36P
CRT-D SVM - SVM
[SHEET-2/2]

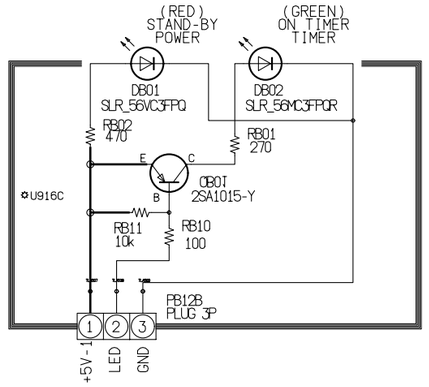
PD1103A1



PD1103A2

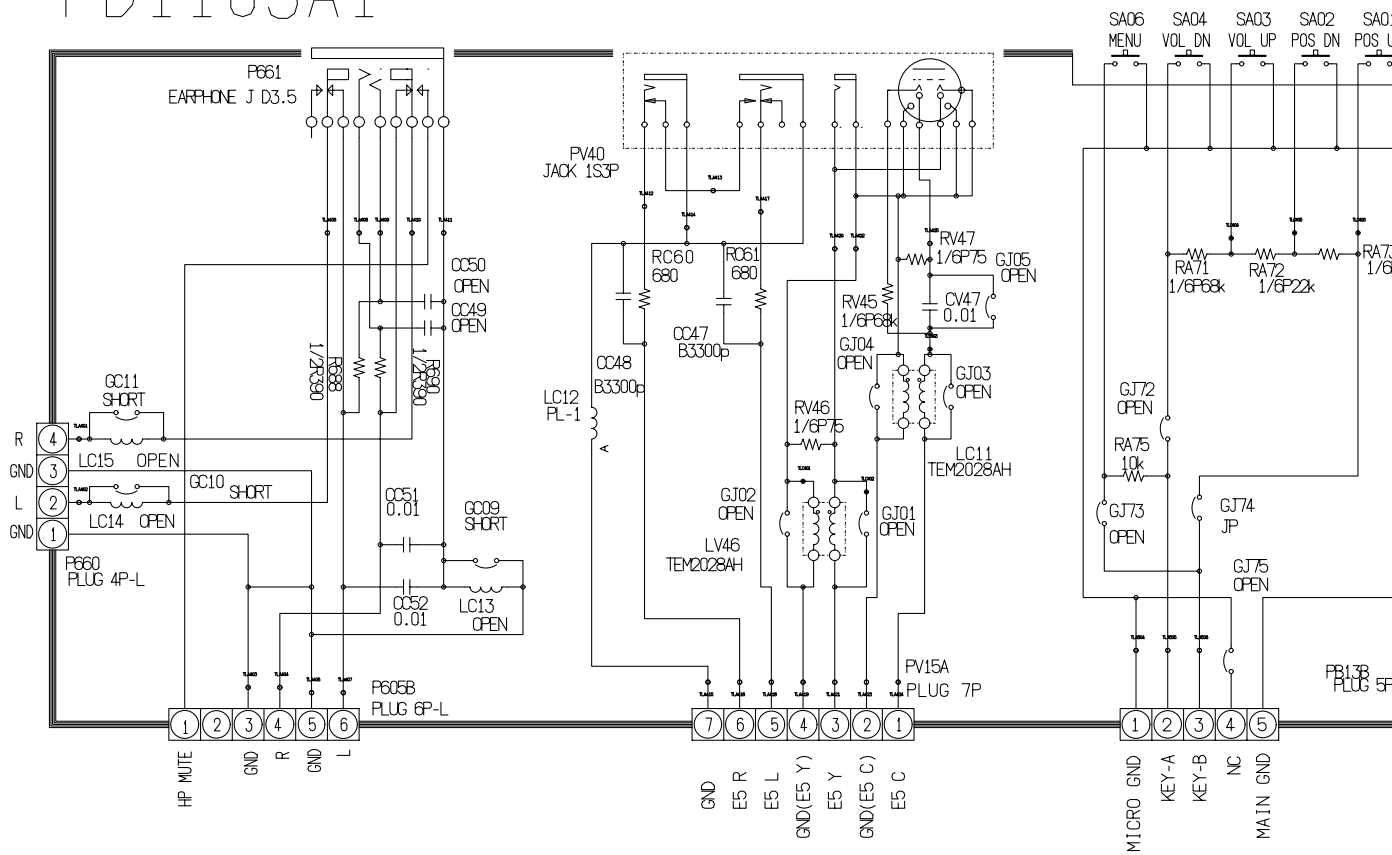


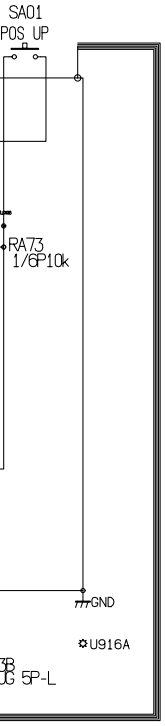
PD1103A3



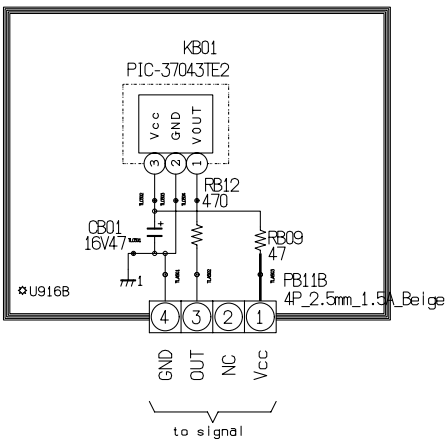
42WH36P
FRONT

PD1103A1

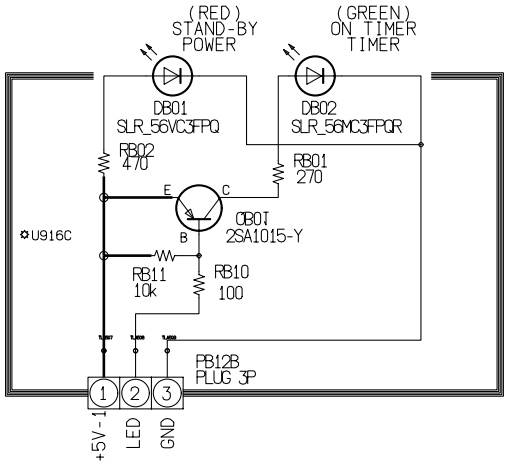

P661
EARPHONE J D3.5
PV40
JACK 1S3P
SA06
MENU
SA04
VOL_DN
SA03
VOL_UP
SA02
POS_DN
SA01
POS_UP
CC50
OPEN
CC49
OPEN
R888
1/2R330
R889
1/2R330
GC11
SHORT
R
GND
L
GND
LC15 OPEN
GC10 SHORT
LC14 OPEN
P660
PLUG 4P-L
CC51
0.01
CC52
0.01
GC09
SHORT
LC13
OPEN
P605B
PLUG 6P-L
HP MUTE
GND
R
GND
L
RC60
680
RC61
680
CC47
B3300p
CC48
B3300p
LC12
PL-1
RV47
1/6P75
GJ05
OPEN
RV45
1/6P68k
CV47
0.01
GJ04
OPEN
GJ03
OPEN
RV46
1/6P75
LC11
TEM2028AH
GJ02
OPEN
GJ01
OPEN
LV46
TEM2028AH
PV15A
PLUG 7P
GND
E5 R
E5 L
GND(E5 Y)
E5 Y
GND(E5 C)
E5 C
RA71
1/6P68k
RA72
1/6P22k
GJ72
OPEN
RA75
10k
GJ73
OPEN
GJ74
JP
GJ75
OPEN
PB13B
PLUG 5P
MICRO GND
KEY-A
KEY-B
NC
MAIN GND



PD1103A2



PD1103A3

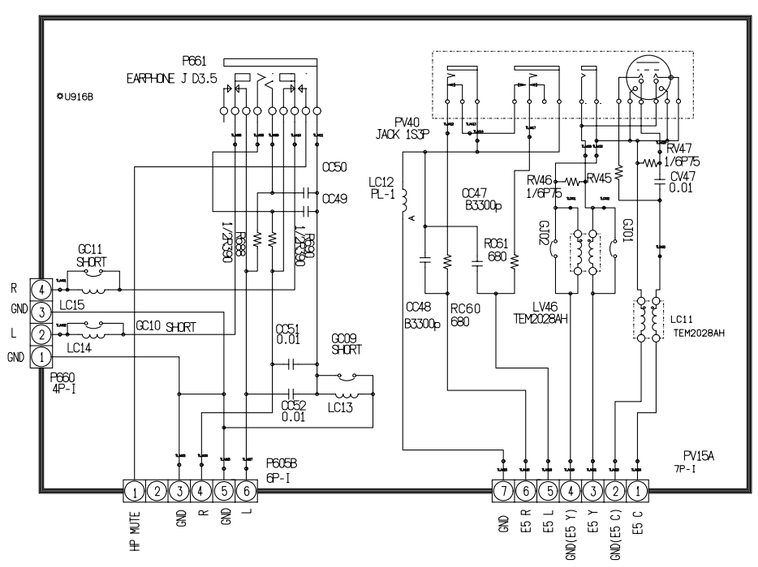


A

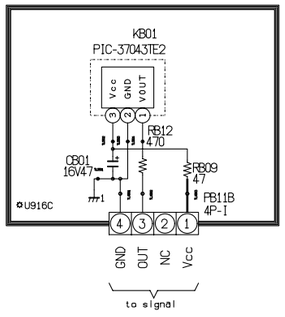
B

42WH36P
FRONT

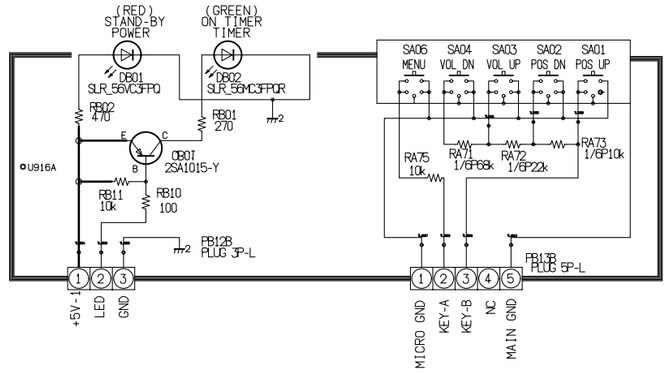
PD1261A2



PD1261A3

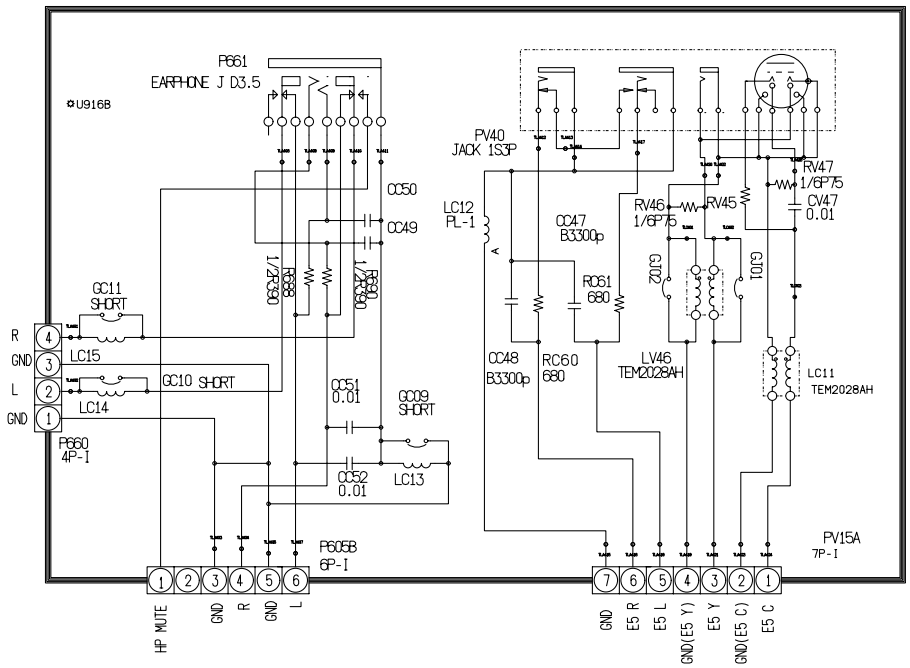


PD1261A1

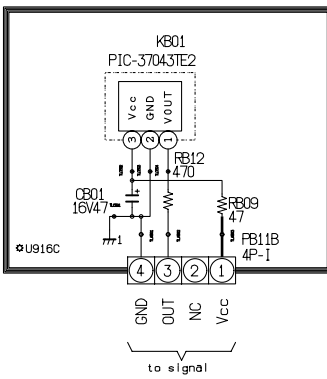


51WH36P
FRONT

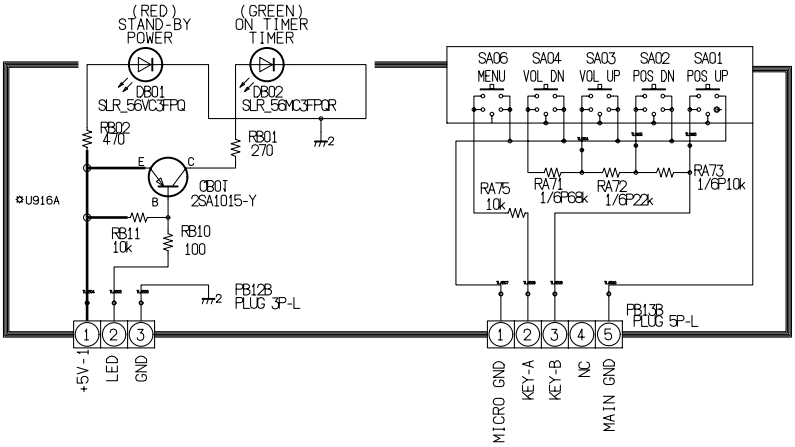
PD1261A2



PD1261A3



PD1261A1



51WH36P
FRONT